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Dept. of Enviro. Quality
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Tank Management Bureau

**SANITATION, INC. LANDFILL
LEWISTOWN, MONTANA
NOVEMBER 2005
GROUNDWATER SAMPLING REPORT**

Prepared for:
Barry Damschen Consulting, LLC

Prepared by:
Hydrometrics, Inc. 
Consulting Scientists & Engineers

3020 Bozeman Avenue
Helena, MT 59601

January 2006



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

January 17, 2006

Tim Steppe
Solid Waste Program
Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Tim:

Please find enclosed our copy of the groundwater results for the Fall, 2005 sampling at the Sanitation Inc. landfill. The samples were collected on November 2, 2005. As indicated in the attached report, there does not appear to be any significant groundwater degradation as a result of the landfill. As you are aware we installed a new monitoring well at the site two years ago and we have now monitored this new well five (5) times. There was not sufficient water to monitor SIMW-1.

I understand that an agreement has been negotiated between my client (Sanitation Inc.) and the DEQ regarding the number of wells and the frequency in which these wells are to be sampled. I feel that it would be appropriate for the DEQ to confirm with me in writing of these changes in order that we can prepare an updated sampling and analysis plan. Please feel free to call me at your earliest convenience (461-5003)

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

Enclosure

cc: Sanitation, Inc.

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Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau



January 23, 2006

F. Patrick Crowley
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

RE: November 2005 Groundwater Monitoring Results
Sanitation, Inc. Landfill, Lewistown, MT

Dear Pat,

Hydrometrics, under contract to Barry Damschen Consulting, LLC, has prepared this letter report to transmit the results of the November 2005 groundwater monitoring at the Sanitation, Inc. Landfill in Lewistown, Montana. Sampling activities were conducted on November 2, 2005.

Groundwater Flow Results

Static water levels were measured in wells SIMW-1, SIMW-2, SIMW-3, and SIMW-4, and in piezometers SIP-1 and SIP-2 (Table 1). Monitoring locations and November 2005 groundwater elevations are shown on Figure 1, along with potentiometric contours based on the observed elevations.

Groundwater elevations in November 2005 were lower than those measured in June 2005 at all monitoring locations (see table below). As observed in June 2005, the greatest change in water level occurred at well SIMW-4. Large water level fluctuations at well SIMW-4 may be influenced by the detention pond, which is located north-northwest of well SIMW-4 (Figure 1). The detention pond was dry during the November 2005 monitoring event.

Well ID	Water Level Change (June 2005 to November 2005)
SIMW-1	-1.83 ft
SIMW-2	-2.35 ft
SIMW-3	-0.32 ft
SIMW-4	-10.97 ft
SIP-1	-1.1 ft
SIP-2	-2.91 ft

The estimated shallow groundwater flow direction at the site is generally to the north, and the estimated hydraulic gradient in the area near wells SIMW-3 and SIMW-4 is 0.14 (Figure 1). The groundwater seepage velocity near well SIMW-3 can be estimated with previously determined (Entranco, 2002) values for aquifer porosity (estimated at 0.35), and hydraulic conductivity (9.2 ft/day), using the formula $V_s = KI/n_e$ where V_s = seepage velocity (ft/day); K = hydraulic conductivity (ft/day); I = hydraulic gradient (dimensionless); and n_e = porosity (dimensionless).

Using the values cited above, the estimated groundwater seepage velocity near well SIMW-3 for November 2005 is 3.7 ft/day. This seepage velocity estimate is similar to the June and October 2004

calculated values of 3.2 ft/day, and higher than the June 2005 calculated value of 1.6 ft/day. As noted in the June 2005 monitoring report (Hydrometrics, 2005) the lower seepage velocity for June 2005 was primarily a function of the shallower estimated gradient, resulting from a large increase in groundwater elevation at well SIMW-4 (about 12 feet).

Groundwater Quality Results

Water quality samples were collected from wells SIMW-2, SIMW-3, and SIMW-4 by bailing. No sample was collected from SIMW-1 due to an insufficient quantity of water for sampling. Quality control (QC) samples included a field duplicate (collected at SIMW-4), a trip blank, and standard internal laboratory QC samples. Samples were submitted to Energy Laboratories in Helena, Montana for analysis of Solid Waste Table 1 inorganic parameters and volatile organic compounds (VOCs). Field sampling notes and laboratory analytical reports are in Attachment 1.

Results for selected inorganic and organic parameters are summarized in Table 2a for SIMW-1, Table 2b for SIMW-2, Table 2c for SIMW-3, and Table 2d for SIMW-4, along with summary statistics for the data period August 1995 through November 2005. Note that, since no sample was collected from site SIMW-1, the data table presented in this report is identical to that in the June 2005 report. For comparison, applicable WQB-7 groundwater standards are also shown in Tables 2a-2d. As shown in these tables, one parameter (nitrate + nitrite at well SIMW-3) exceeded the relevant WQB-7 groundwater standard for the November 2005 monitoring event.

All VOC concentrations were below laboratory reporting limits for well SIMW-4. Wells SIMW-2 and SIMW-3 each had several VOC parameters reported as present, but below the laboratory reporting limit (reported with a 'J' qualifier), as follows:

Site	11/05 VOCs Reported (µg/L)
SIMW-2	dichlorodifluoromethane (0.25 J)
	1,1-dichloroethane (0.18 J)
	1,1,1-trichloroethane (0.51 J)
	trichlorofluoromethane (0.19 J)
SIMW-3	dichlorodifluoromethane (0.34 J)
	1,1,1-trichloroethane (0.23 J)
	trichlorofluoromethane (0.35 J)

In general, groundwater parameter concentrations were similar to values observed previously at each monitoring well. The VOC concentrations reported for wells SIMW-2 and SIMW-3 (summarized in the above table) are similar to concentrations occasionally observed for these parameters over the last 10 years (Tables 2b and 2c). Nitrate + nitrite concentrations increased at well SIMW-3 from 10.6 mg/L in June 2005 to 11.4 mg/L in November 2005, and remained virtually unchanged at well SIMW-2 over the same period (3.01 to 2.94). Low concentrations of dissolved zinc were reported at wells SIMW-2 (0.07 mg/L) as well as SIMW-3 and SIMW-4 (both 0.02 mg/L). Sulfate and specific conductance decreased at SIMW-4 in November 2005 after showing an increase in June 2005 (Table 2d).

Figures 2a, 2b, 2c, and 2d show trend plots of chloride, sulfate, specific conductance (SC), nitrate + nitrite, and dissolved iron, selenium, zinc, and selected VOCs for wells SIMW-1, SIMW-2, SIMW-3, and SIMW-4, respectively. As stated previously, the plots for SIMW-1 are identical to those in the June 2005 report, since this well was not sampled in November 2005. The data show some seasonal and long-term variability, with occasional spikes in metals concentrations apparent at wells SIMW-2 and SIMW-3. Typically, iron and zinc concentrations are at or near detection limits, while selenium concentrations are

at or near detection limits at SIMW-2 and SIMW-4 and show averages of 0.016 mg/L at SIMW-1 and 0.024 mg/L at SIMW-3 (Tables 2a, 2b, 2c, 2d).

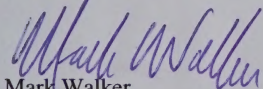
Recent increasing trends (i.e., during the last five years) are evident for the following constituents based on the time-concentration plots: SC and nitrate + nitrite at well SIMW-1 (Figure 2a), nitrite + nitrite at well SIMW-2 (Figure 2b), and sulfate at well SIMW-3 (Figure 2c). It should be noted, however, that in most cases current concentrations are within the range of historical data, and are generally similar to data collected earlier in the period of record.

As an additional method to determine if groundwater concentrations are changing over time, the nonparametric Mann-Kendall test for trend (D.R. Helsel and R.M. Hirsch, 2002) was conducted on the data sets for wells SIMW-2 and SIMW-3 (well SIMW-1 was not sampled in November 2005, and thus the statistical testing conducted on this well in June 2005 remains current). Briefly stated, the test involves calculation of Kendall's S-statistic and Kendall's tau (τ), which is a measure of the strength of correlation between two variables. Statistical results are presented in Table 3. The significance level of $\alpha=0.05$ selected for the test is commonly used as a default level for statistical testing, and denotes a 5% chance that the test will conclude that there is a trend when in fact there is not (false positive result). Note that, due to the prevalence of estimated values (values reported as present, but below reporting limits), the Mann-Kendall test was not conducted for organic parameters. In addition, since only five samples have been collected to date from well SIMW-4, statistical testing was not conducted for this well.

Statistically significant ($p<0.05$) trends were detected for three parameters: selenium at well SIMW-2, and sulfate and SC at well SIMW-3 (Table 3). The selenium trend at SIMW-2 is decreasing (negative τ), while the statistical results indicate increasing sulfate and SC trends at well SIMW-3, although the trends are not particularly strong ($\tau = 0.37$ for sulfate and 0.43 for SC). Both sulfate and SC decreased slightly in November 2005 from their June 2005 values (Figure 2c). The SC values at SIMW-3 did show an increase from about 1999 through 2001, but have stabilized during recent years (Figure 2c).

If you have any questions regarding this data report, please feel free to contact me at (406) 443-4150, ext. 146.

Sincerely,



Mark Walker
Chemist

Enclosures

c: Sanitation, Inc. Landfill
Barry Damschen Consulting, LLC

REFERENCES

- Entranco, 2002. Sanitation, Inc. Letter Report from Bruce Siegmund to Pat Potts, MDEQ dated March 21, 2002.
- Helsel, D.R. and R.M. Hirsch, 2002. *Statistical Methods in Water Resources*. Techniques of Water-Resources Investigations of the United States Geological Survey, Book 4, Chapter A3. September 2002.
- Hydrometrics, 2005. Sanitation, Inc. Landfill, Lewistown, Montana, June 2005 Groundwater Sampling Report. September, 2005.

TABLES

Table 1. Water Level Measurement Results

Table 2a. SIMW-1 Groundwater Quality Results and Summary Statistics

Table 2b. SIMW-2 Groundwater Quality Results and Summary Statistics

Table 2c. SIMW-3 Groundwater Quality Results and Summary Statistics

Table 2d. SIMW-4 Groundwater Quality Results and Summary Statistics

Table 3. Statistical Test Results

TABLE 1. WATER LEVEL MEASUREMENT RESULTS

Well	November 2005 Static Water Level (ft bmp)	November 2005 Groundwater Elevation (ft)
SIMW-1	46.25	4091.63
SIMW-2	36.03	4087.68
SIMW-3	31.49	4079.42
SIMW-4	40.32	4037.75
SIP-1	34.64	4085.6
SIP-2	52.56	4098.78

NOTES:

bmp = below measuring point

nc = not calculated (no static water level measured)

Table 2a. SIMW-1 Groundwater Quality Results and Summary Statistics

Date	Cl (mg/L)	SO4 (mg/L)	SC (umhos/cm)	NO3 + NO2 (mg/L as N)	Fe (diss) (mg/L)	Se (diss) (mg/L)	Zn (diss) (mg/L)	dichlorodifluoro-methane (ug/L)	1,1,1-trichloro-ethane (ug/L)	trichlorofluoro-methane (ug/L)
8/16/1995	26	95	958	4.49	<0.03	0.017	<0.01	0.65(j)	0.67(j)	0.49(j)
6/10/1996				4.24	<0.03	0.016	0.02	0.58(j)	0.34(j)	0.4(j)
6/3/1997	25	92	786	5.56	0.04	0.014	0.03	0.53(j)	0.77(j)	0.47(j)
11/4/1997	24	81	751	3.74	<0.03	0.019	0.02	0.68(j)	0.4(j)	0.33(j)
10/6/1998				5.52				0.54(j)	0.42(j)	0.37(j)
6/15/1999	23	77	686	4.04	<0.03	0.018	0.02	0.53(j)	0.43(j)	0.39(j)
10/6/1999	25	79	759	4.06	<0.03	0.017	0.04	0.54(j)	<1	<1
6/27/2000	22	70	755	3.6	<0.03	0.016	<0.01	0.59(j)	<1	<1
10/17/2000	30	98	756	2.82	<0.03	0.009	0.04	0.43(j)	0.33(j)	0.28(j)
7/22/2003	22	68	798	4.47	<0.03	0.018	0.03	0.38(j)	0.3(j)	0.23(j)
6/21/2004	24	79	845	3.88	<0.03	0.014	<0.01	<1	<1	<1
6/18/2005	27	95	920	4.98	<0.03	0.019	<0.01	<1	<1	<1
WQB-7 standard	na	na	na	10	0.3	0.05	2.0	1,000	200	10,000
n	10	10	10	12	11	11	11	12	12	12
% BD	0%	0%	0%	0%	91%	0%	36%	17%	33%	33%
Average	25	83	801	4.28	0	0.016	0.022	0.621	0.638	0.580
Median	24.5	80	773	4.15	<0.03	0.017	0.02	0.56	0.55	0.435
Minimum	22	68	686	2.82	<0.03	0.009	<0.01	0.38	0.3	0.23
Maximum	30	98	958	5.56	0.04	0.019	0.04	1	<1	<1

NOTES:

n = number of samples
%BD = percent of samples below detection limits

Below detect values replaced with detection limit for calculation of averages

(j) Estimated value; analyte present but less than the reporting limit.

WQB-7 Standards are groundwater standards from January 2004 version of WQB-7; na = no applicable standard.

Table 2b. SIMW-2 Groundwater Quality Results and Summary Statistics

Date	Cl (mg/L)	SO4 (mg/L)	SC (umhos/cm)	NO3 + NO2 (mg/L as N)	Fe (diss) (mg/L)	Se (diss) (mg/L)	Zn (diss) (mg/L)	dichlorodifluoro-methane (ug/L)	1,1-dichloro-ethane (ug/L)	1,1,1-trichloro-ethane (ug/L)	trichlorofluoro-methane
8/16/1995	55	224	1480	3.78	<0.03	0.006	<0.01	<1	<1	<1	<1
6/10/1996	47	195	1180	4.18	<0.03	0.008	<0.01	0.18(j)	<1	0.35(j)	0.16(j)
10/22/1996	62	214	1180	2.6	1.29	<0.005	0.03	0.23	<1	<1	0.15(j)
6/3/1997	63	202	1040	2.11	0.06	0.014	0.06	<1	<1	<1	<1
11/4/1997	58	211	1110	3.95	<0.03	0.008	<0.01	0.26(j)	<1	0.42(j)	0.2(j)
6/16/1998	56	201	1150	2.32	0.05	0.005	0.02	<1	<1	<1	1.4
10/6/1998	56	203	1140	3.97	0.05	0.006	0.02	0.28(j)	<1	0.39(j)	<1
6/15/1999	30	177	1170	3.26	<0.03	0.006	0.01	0.56(j)	0.22(j)	1.2	0.48(j)
10/6/1999	50	193	1100	2.46	<0.03	0.006	0.08	<1	<1	<1	<1
6/27/2000	59	199	1100	2.57	<0.03	0.005	<0.01	0.32(j)	<1	0.42(j)	<1
10/17/2000	61	201	1130	1.93	<0.03	0.005	<0.01	0.27(j)	<1	0.41(j)	<1
7/16/2001	67	214	1140	1.05	<0.03	<0.005	0.01	<1	<1	<1	<1
10/30/2001	61	205	1170	0.94	0.08	<0.005	0.01	<1	<1	<1	<1
10/26/2002	62	216	1240	1.04	0.05	<0.005	0.02	<1	<1	<1	<1
7/22/2003	62	187	1140	1.3	<0.03	<0.005	<0.01	<1	<1	<1	<1
10/15/2003	63	211	1110	1.78	1.5	<0.005	<0.01	<1	<1	<1	<1
6/21/2004	58	211	1160	2.34	<0.03	<0.005	<0.01	<1	<1	<1	<1
10/25/2004	61	205	1220	1.94	<0.03	<0.005	<0.01	<1	<1	<1	<1
6/18/2005	60	201	1180	3.01	<0.03	<0.005	<0.01	<1	<1	<1	<1
11/2/2005	52	203	1230	2.94	<0.03	<0.005	0.07	0.25(j)	0.18(j)	0.51(j)	0.19(j)
WQB-7 Standard	na	na	na	10	0.3	0.05	2.0	1,000	na	200	10,000
n	20	20	20	20	20	20	20	20	20	20	20
% BD	0%	0%	0%	0%	65%	50%	50%	60%	90%	65%	70%
Average	57	204	1169	2.47	0	0.006	0.022	0.718	0.920	0.835	0.829
Median	59.5	203	1155	2.40	<0.03	0.005	0.01	<1	<1	<1	<1
Minimum	30	177	1040	0.94	<0.03	<0.005	<0.01	0.18(j)	0.18(j)	0.35(j)	0.15(j)
Maximum	67	224	1480	4.18	1.5	0.014	0.08	<1	<1	1.2	1.4

NOTES:
n = number of samples
%BD = percent of samples below detection limits
Below detect values replaced with detection limit for calculation of averages
(j) Estimated value; analyte present but less than the reporting limit.
WQB-7 Standards are groundwater standards from January 2004 version of WQB-7; na = no applicable standard.

Table 2c. SIMW-3 Groundwater Quality Results and Summary Statistics

Date	Cl (mg/L)	SO4 (mg/L)	SC (umhos/cm)	NO3 + NO2 (mg/L as N)	Fe (diss) (mg/L)	Se (diss) (mg/L)	Zn (diss) (mg/L)	dichlorodifluoro-methane (µg/L)	1,1,1-trichloro-ethane (µg/L)	trichlorofluoro-methane (µg/L)
8/16/1995	34	140	893	8.96	<0.03	0.021	<0.01	0.2(i)	0.54(i)	0.17(i)
6/10/1996	30	139	750	9.25	0.1	0.022	<0.01	<1	<1	<1
10/22/1996	34	133	706	9.09	0.03	0.019	<0.01	<1	<1	<1
6/3/1997	27	134	683	9.08	<0.03			<1	<1	<1
11/4/1997	30	131	767	9.35	<0.03	0.023	<0.01	<1	<1	<1
6/16/1998	23	129	739	12.2	0.24	0.019	<0.01	1.2	<1	1.4
10/6/1998	25	128	731	11	<0.03	0.017	0.01	0.45(i)	<1	0.22(i)
6/15/1999	25	121	707	11.7	12.9	0.074	0.47	0.55(i)	0.34(i)	0.29(i)
10/6/1999	27	124	744	11.5	<0.03	0.019	0.02	<1	<1	<1
6/27/2000	30	135	797	10.1	<0.03	0.023	0.01	0.32(i)	<1	<1
10/17/2000	32	139	808	9.76	<0.03	0.024	0.01	0.3(i)	<1	<1
7/6/2001	36	135	870	8.79	<0.03	0.021	<0.01	0.34(i)	<1	<1
10/30/2001	35	134	866	10.7	<0.03	0.02	0.03	<1	<1	<1
10/26/2002	30	140	879	8.69	<0.03	0.025	0.02	<1	<1	<1
7/22/2003	30	135	811	9.72	0.77	0.022	<0.01	0.27(i)	<1	<1
10/15/2003	31	143	799	9.13	0.22	0.021	<0.01	0.33(i)	<1	<1
6/21/2004	31	143	802	8.06	0.34	0.021	<0.01	<1	<1	<1
10/25/2004	27	136	869	8.35	<0.03	0.023	<0.01	0.31(i)	<1	<1
6/18/2005	29	148	879	10.6	<0.03	0.018	<0.01	<1	<1	<1
11/2/2005	28	146	844	11.4	<0.03	0.018	0.02	0.34(i)	0.23(i)	0.35(i)
WQB-7 Standard	na	na	na	10	0.3	0.05	2.0	1,000	200	10,000
n	20	20	20	20	20	19	19	20	20	20
%BD	0%	0%	0%	0%	65%	0%	58%	45%	85%	75%
Average	30	136	797	9.9	0.75	0.024	0.04	0.68	0.91	0.87
Median	30	135	800.5	9.535	<0.03	0.021	<0.01	<1	<1	<1
Minimum	23	121	683	8.06	<0.03	0.017	<0.01	0.2(i)	0.23(i)	0.17(i)
Maximum	36	148	893	12.2	12.9	0.074	0.47	1.2	<1	1.4

NOTES:

n = number of samples
%BD = percent of samples below detection limits

Below detect values replaced with detection limit for calculation of averages

(i) Estimated value; analyte present but less than the reporting limit.

WQB-7 Standards are groundwater standards from January 2004 version of WQB-7; na = no applicable standard.

Table 2d. SIMW-4 Groundwater Quality Results and Summary Statistics

Date	Cl (mg/L)	SO4 (mg/L)	SC (umhos/cm)	NO3 + NO2 (mg/L as N)	Fe (diss) (mg/L)	Se (diss) (mg/L)	Zn (diss) (mg/L)
10/15/2003	135	167	1370	<0.05	0.06	<0.005	<0.01
6/21/2004	161	152	1500	0.63	<0.03	<0.005	<0.01
10/25/2004	116	161	1460	<0.05	<0.03	<0.005	<0.01
6/18/2005	175	228	2060	<0.05	0.04	<0.005	<0.01
11/2/2005	114	174	1380	0.08	<0.03	<0.005	0.02
WQB-7 Standard	na	na	na	10	0.3	0.05	2.0
n	5	5	5	5	5	5	5
% BD	0%	0%	0%	60%	60%	100%	80%
Average	140	176	1554	0.17	0.04	<0.005	0.012
Median	135	167	1460	<0.05	<0.03	<0.005	<0.01
Minimum	114	152	1370	<0.05	<0.03	<0.005	<0.01
Maximum	175	228	2060	0.63	0.06	<0.005	0.02

NOTES:

n = number of samples

%BD = percent of samples below detection limits

Below detect values replaced with detection limit for calculation of averages

(j) Estimated value; analyte present but less than the reporting limit.

WQB-7 Standards are groundwater standards from January 2004 version of WQB-7; na = no applicable standard.

Table 3. November 2005 Statistical Test Results

Well	Parameter	Mann-Kendall Trend Test Results		
		S	τ	p
SIMW-1*	chloride	-4	-0.09	0.786
	sulfate	-9	-0.20	0.471
	SC	11	0.24	0.371
	nitrate + nitrite	-14	-0.21	0.373
	Fe (diss)	-6	-0.11	0.429
	Se (diss)	0	0.00	1.000
	Zn (diss)	-2	-0.04	0.935
SIMW-2	chloride	33	0.17	0.297
	sulfate	-3	-0.02	0.948
	SC	25	0.13	0.434
	nitrate + nitrite	-58	-0.31	0.064
	Fe (diss)	-21	-0.11	0.442
	Se (diss)	-105	-0.55	0.0003
	Zn (diss)	-23	-0.12	0.442
SIMW-3	chloride	0	0.00	1.000
	sulfate	71	0.37	0.023
	SC	81	0.43	0.009
	nitrate + nitrite	-12	-0.06	0.721
	Fe (diss)	-6	-0.03	0.848
	Se (diss)	-9	-0.05	0.777
	Zn (diss)	10	0.06	0.723

NOTE: **Bold** values indicate rejection of "no-trend" hypothesis at confidence level $\alpha = 0.05$ (i.e., $p < 0.05$).

*Statistics for SIMW-1 based on data through June 2005; no sample collected in November 2005.

The Mann-Kendall test for trend is conducted according to methods presented in *Statistical Methods in Water Resources* by D.R. Helsel and R.M. Hirsch (2002). The test is a nonparametric method of assessing whether values over time tend to remain constant (null hypothesis) or tend to show an increasing or decreasing trend. The calculated statistics are as follows:

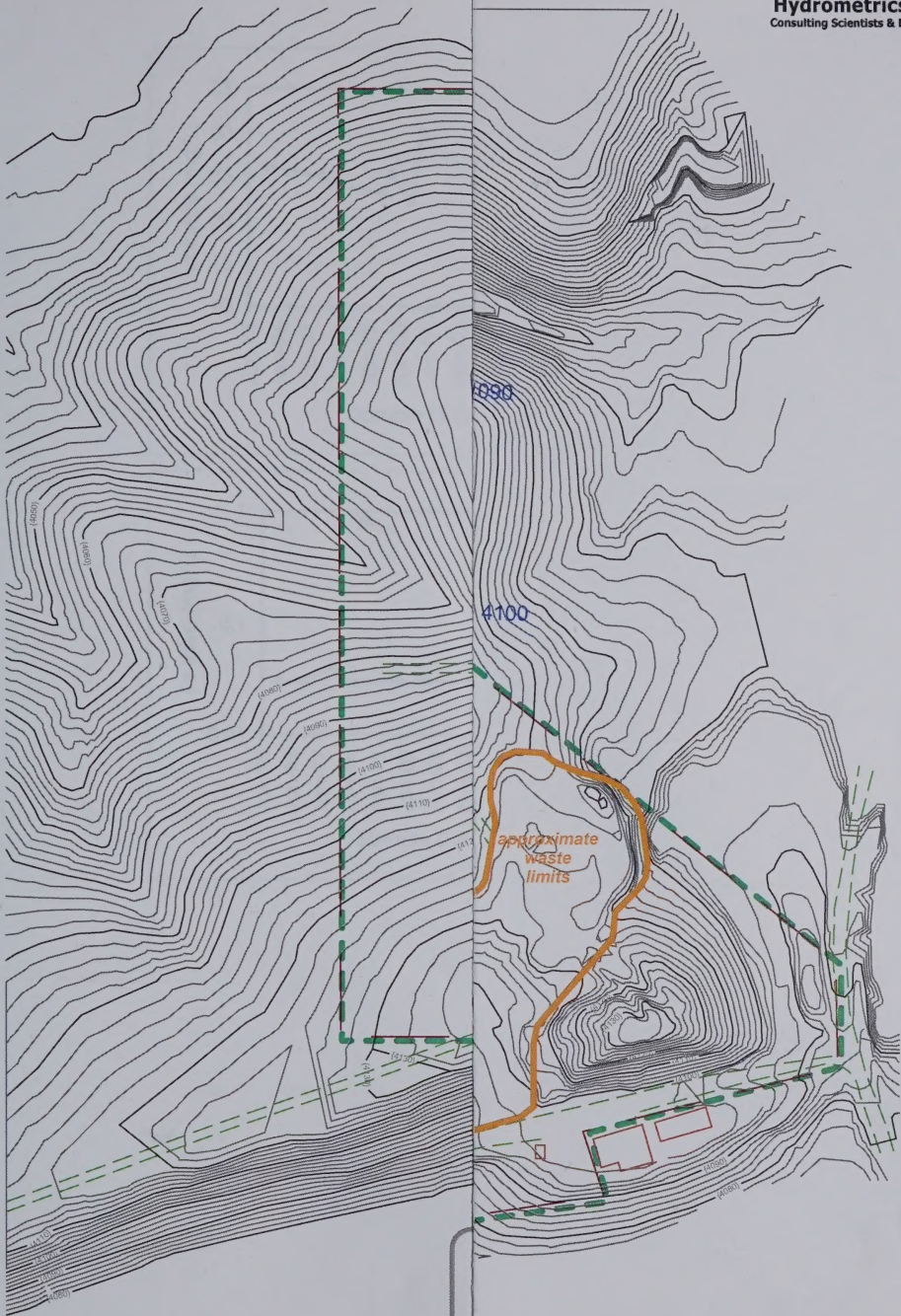
Kendall's S: compares each value in a data set to each subsequently collected value. S is an overall measure of whether subsequent values tend to be greater or less than a given value. If S is positive, subsequent values tend to be greater; if negative, subsequent values tend to be smaller. The closer S is to 0, the less evidence there is of any trend.

Kendall's tau: Kendall's tau is a correlation coefficient analogous to the more familiar Pearson's R. Tau can range from -1 to +1, with +1 indicating a strong increasing trend (increasing concentrations with time), and -1 indicating a strong negative trend (decreasing concentrations with time).

p-value: p-values are a measure of the significance of the above test statistics. Typically, when p is less than some established decision level α , then the null hypothesis (i.e., the assumption of no trend in this case) is rejected.

FIGURES

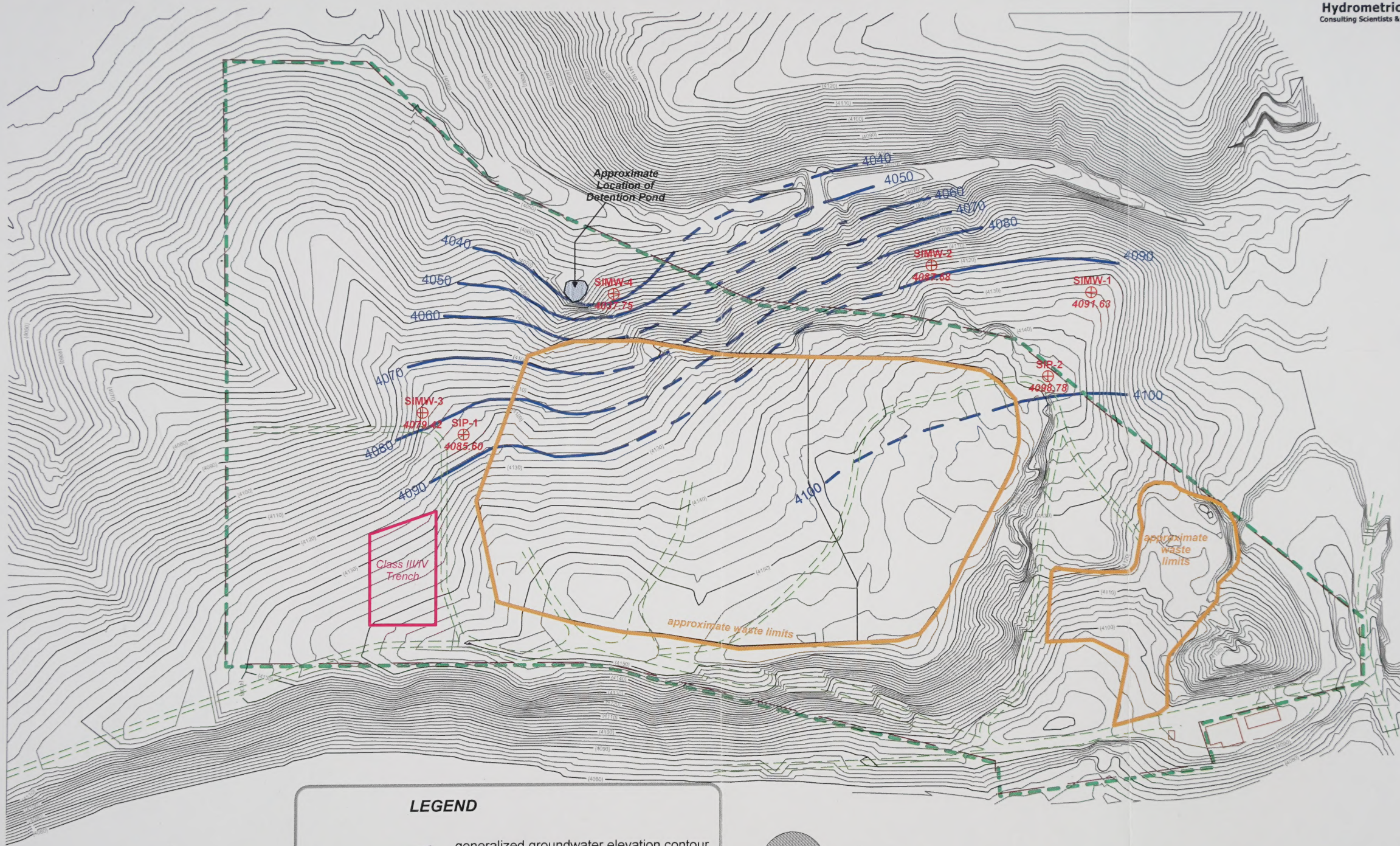
- Figure 1. November 2005 Groundwater Elevations and Potentiometric Contours
Figure 2a. SIMW-1 Water Quality Trends
Figure 2b. SIMW-2 Water Quality Trends
Figure 2c. SIMW-3 Water Quality Trends
Figure 2d. SIMW-4 Water Quality Trends



Groundwater Elevations and
Potentiometric Contours
Hydrometrics, Inc. Landfill
Site, Bismarck, Montana

FIGURE

1



LEGEND

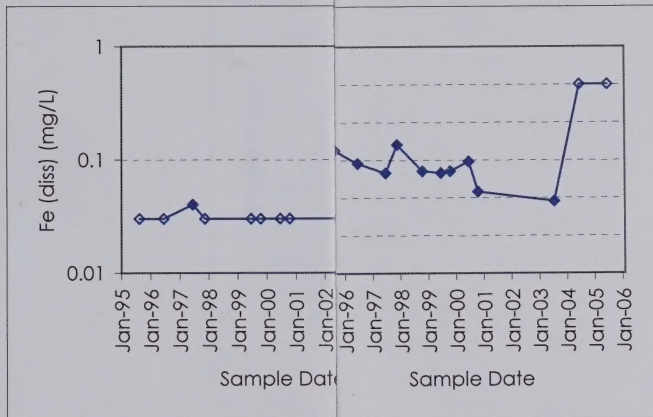
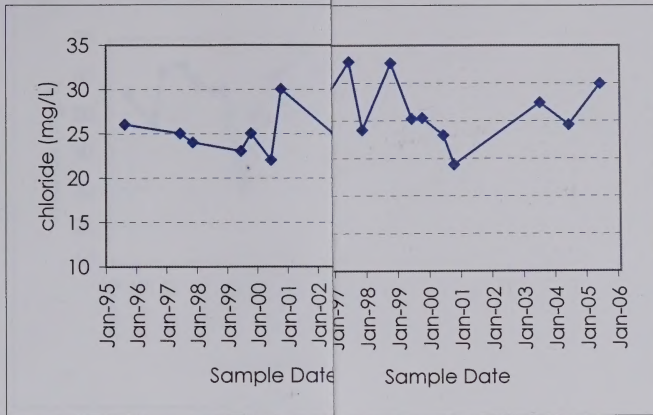
4080 ————— generalized groundwater elevation contour
(dashed where inferred)

SIMW-3
⊕
4079.42 well/piezometer location with
November 2, 2005
groundwater elevation

NORTH

0 200 400
Scale (ft)

November 2005 Groundwater Elevations and Generalized Potentiometric Contours Sanitation, Inc. Landfill Lewistown, Montana	FIGURE
	1



NOTE: open symbols indicate value

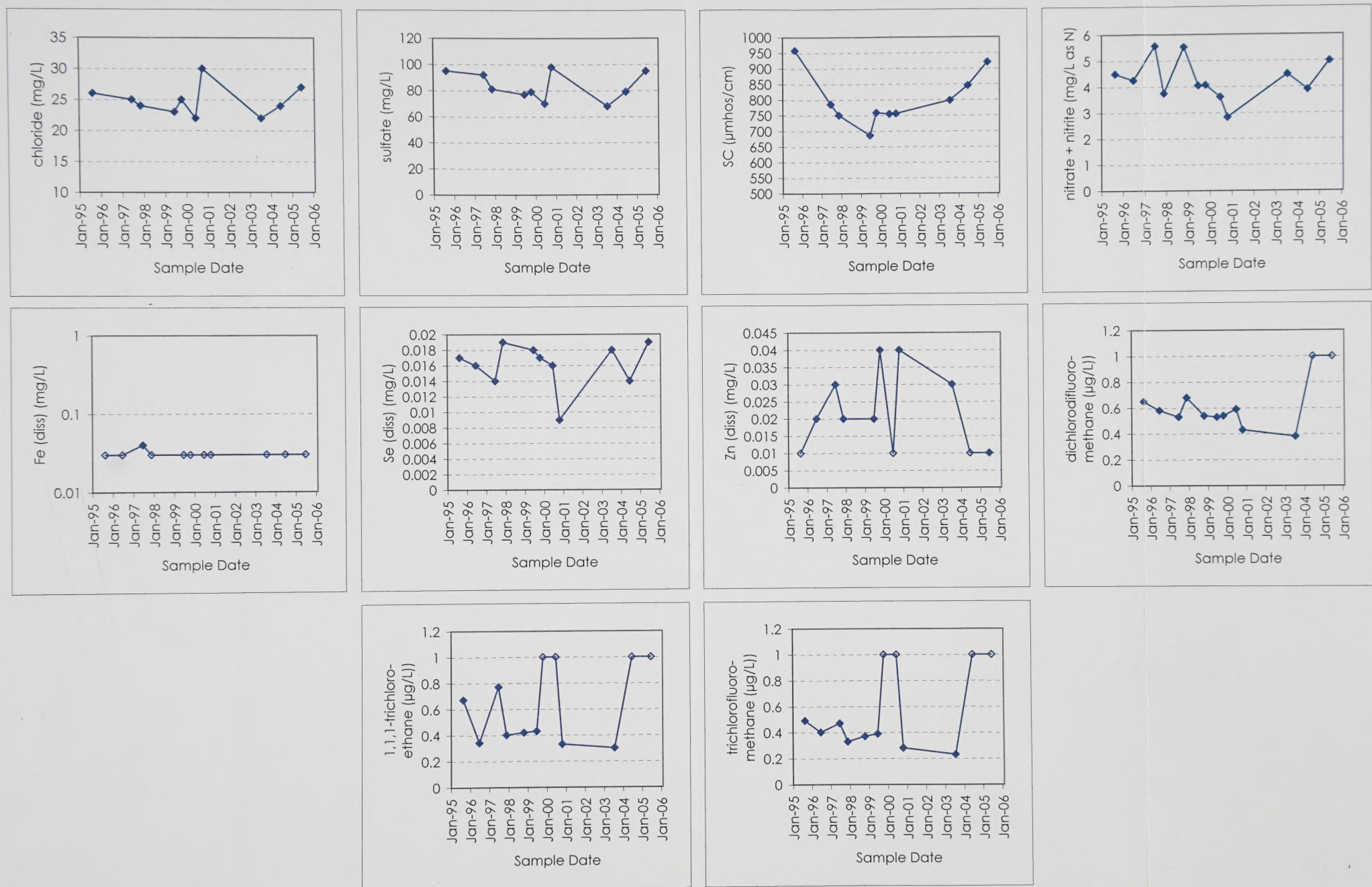
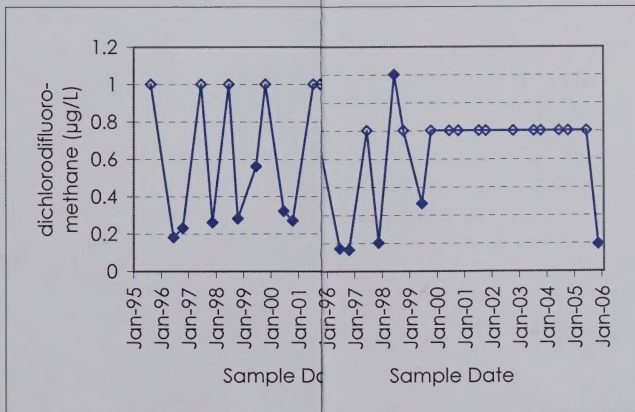
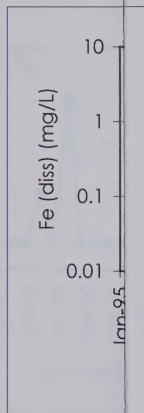
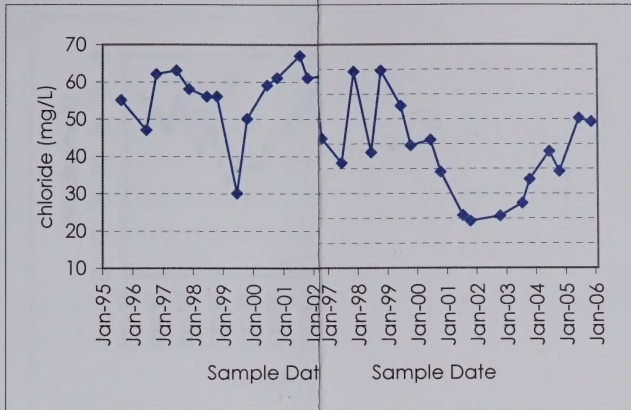


Figure 2a. SIMW-1 Water Quality Trends

NOTE: open symbols indicate value below detection limit



NOTE: open symbols indicate value

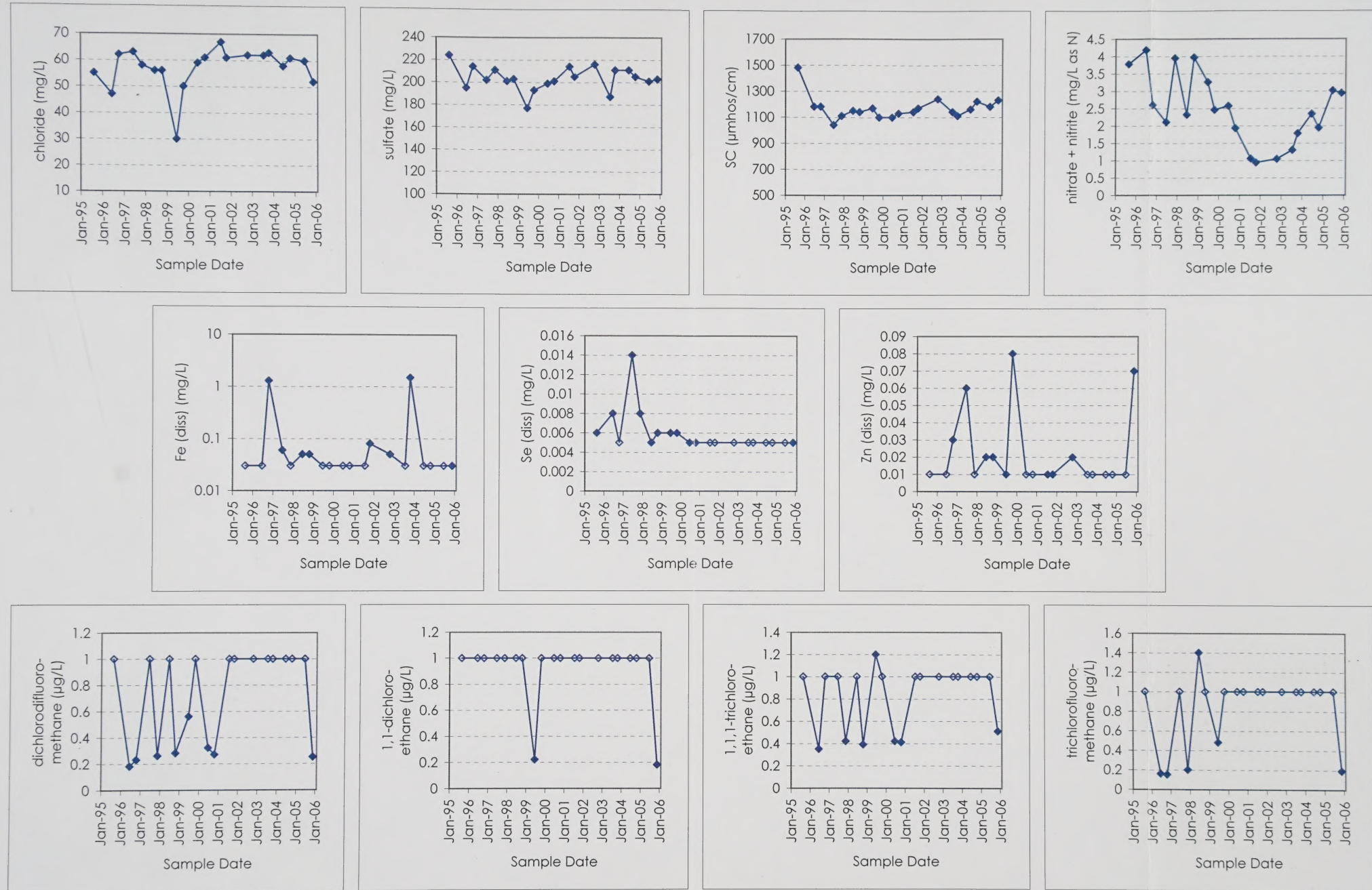
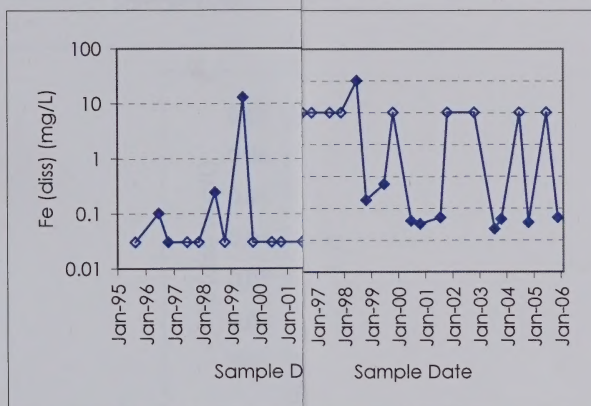
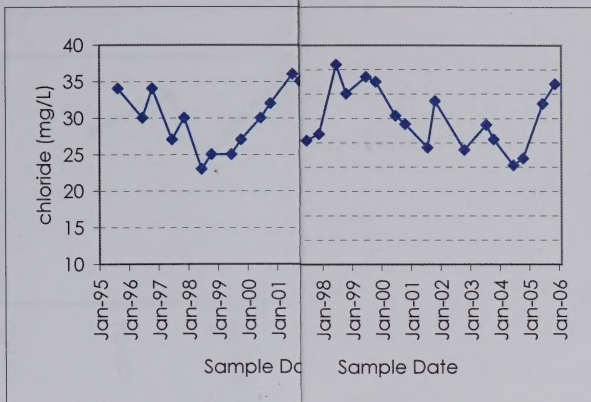


Figure 2b. SIMW-2 Water Quality Trends

NOTE: open symbols indicate value below detection limit



NOTE: open symbols indicate values below 10 mg/L

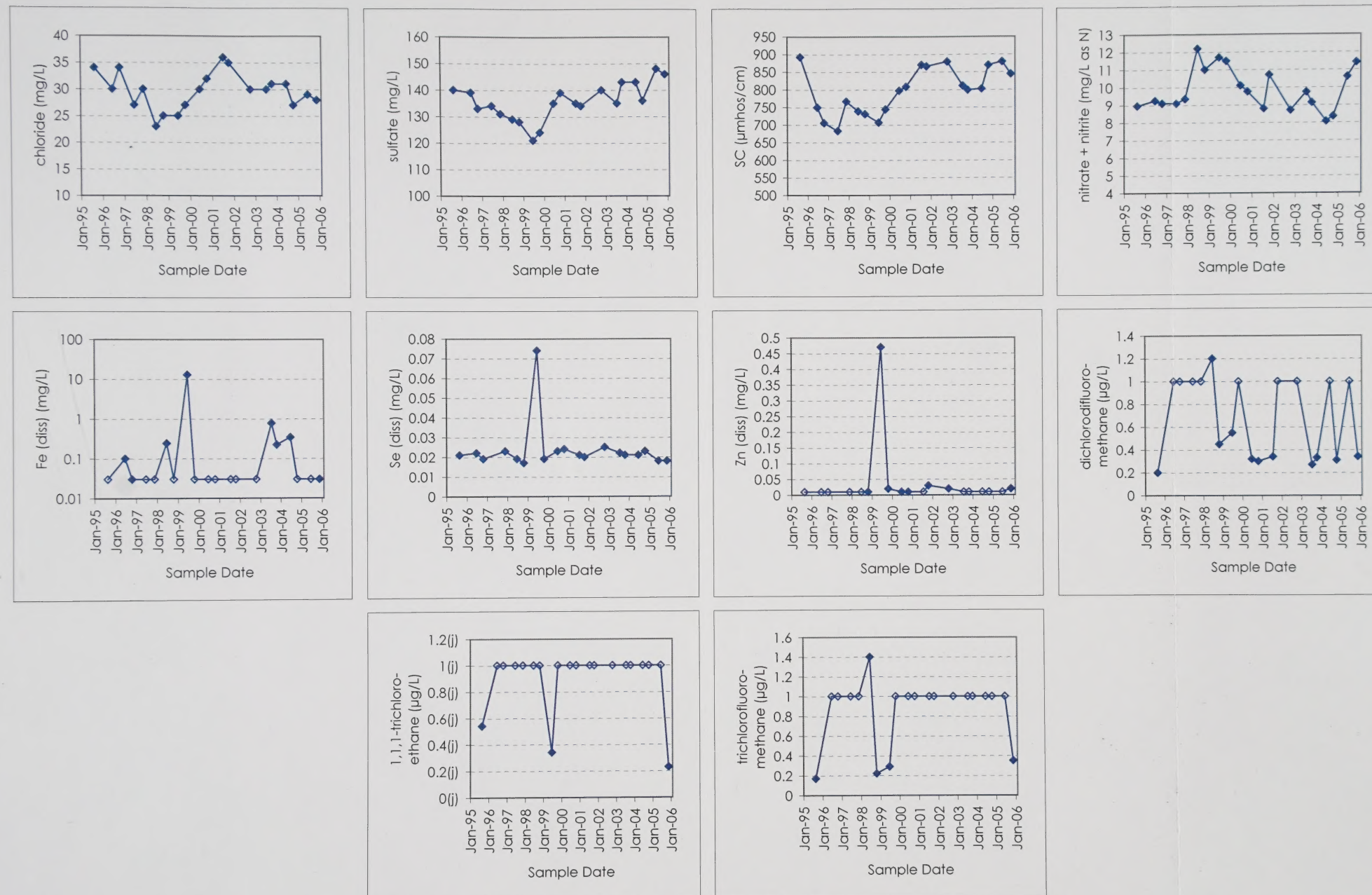
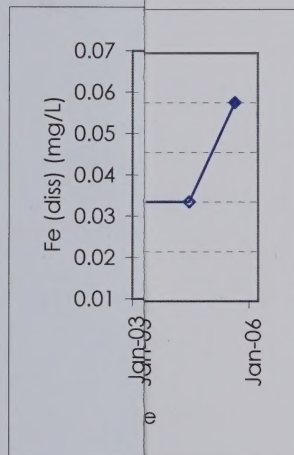
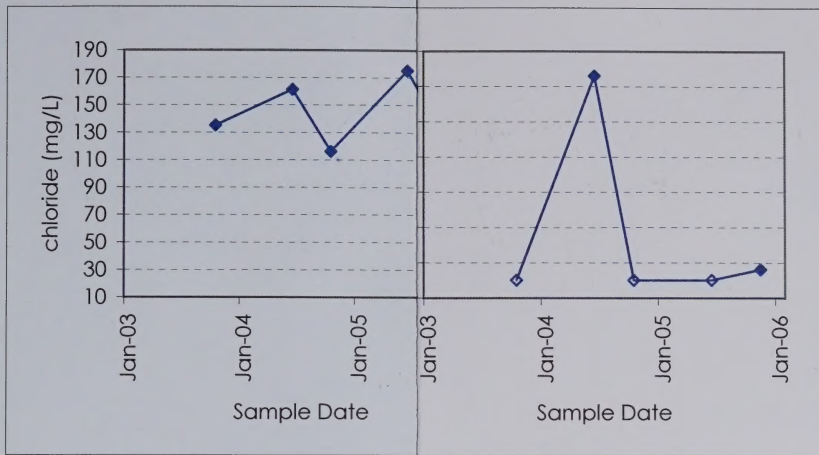


Figure 2c. SIMW-3 Water Quality Trends

NOTE: open symbols indicate value below detection limit



NOTE: open symbols indicate value below

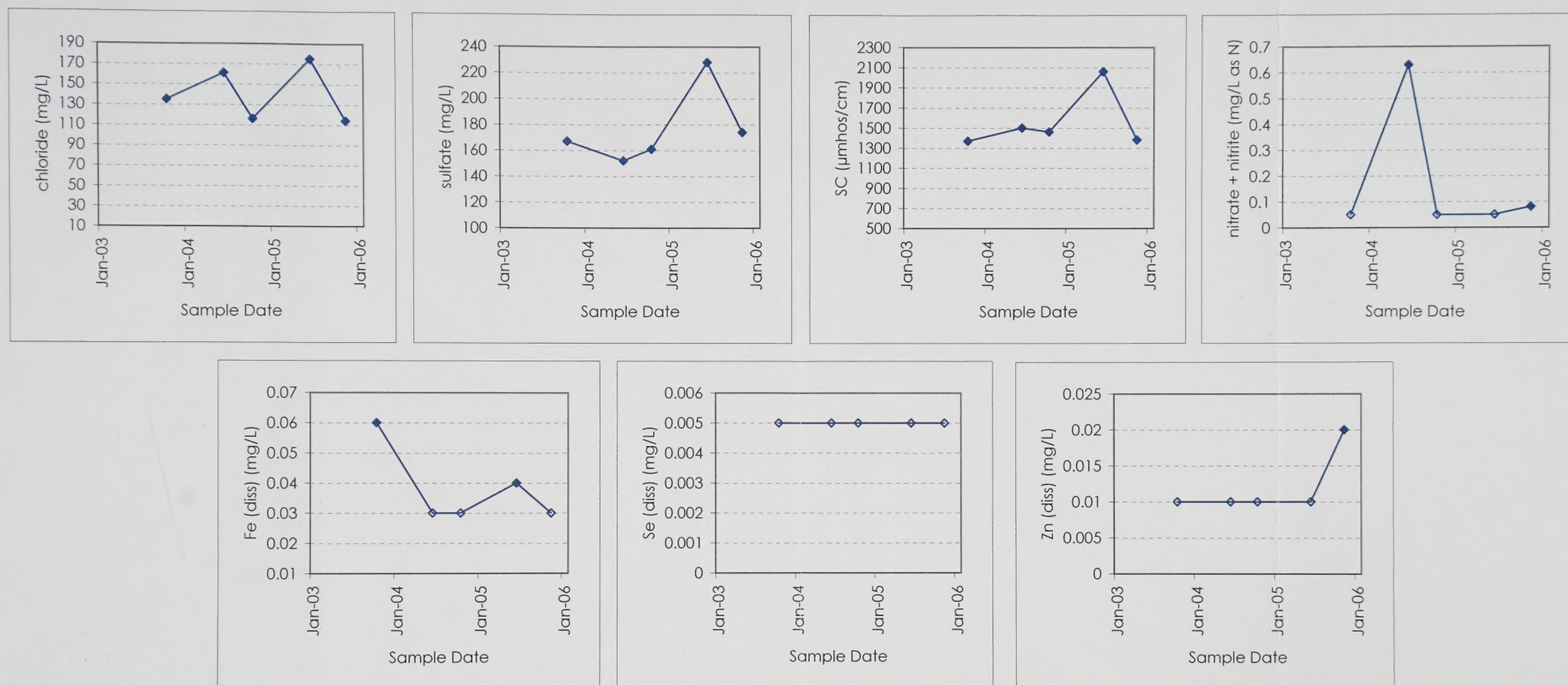


Figure 2d. SIMW-4 Water Quality Trends

NOTE: open symbols indicate value below detection limit

ATTACHMENT 1

FIELD NOTES AND LABORATORY REPORT

pH - SC - Temp.

Instrument Calibration Form

Meter Type: HyDac D16 PCT/PH Comp (033538)

Serial No: 020644559

Project Name: San-Hua Inc Landfill

Date: 11-2-05

Personnel: Benny D.

Weather: windy-dry-40's

PH CALIBRATION

Time	Buffer	Temperature	Reading
	4		
9:30	7	54.5	7.45 → 7.61
	10	"	9.65 → 10.0

Calibration Check: _____

SPECIFIC CONDUCTANCE CALIBRATION

Time	Standard	Temperature	Reading	Cell Factor
930	1415	54	1590 →	1430

Notes:

[Handwritten signature]

BARRY DAMSCHEN CONSULTING, LLC
Helena, Montana

Ground-Water Monitoring Field Report

Project: SAN Inc. Landfill Well: SIMW-1
Personnel: BARRY DAMSCHEN
Date: 11-2-05 Time: 945
Conditions: cloudy - windy - 40's
Static Water Level: 46.25 Total Depth Purged: —
Purge Method: — Volume Purged: 0

	Volume	Temperature	Conductivity	pH
1.	<u>Not sufficient water to take.</u>			
2.	<u>Therefore; no sample was taken</u>			
3.				
4.				
5.				

Pumping Level: _____ (Bladder Pump)

or

Recovery (Inertial or bailer):

h1 _____ h2 _____ time _____ depth: _____

Comments:

511-2 52.56

BARRY DAMSCHEN CONSULTING, LLC.
Helena, Montana

Ground-Water Monitoring Field Report

Project: Sanitation Tr. Landfill Well: SMW-2

Personnel: Barry Damschen

Date: 11-2-05 Time: 1030

Conditions: cloudy - 40's

Static Water Level: 36.03 Total Depth Purged: _____

Purge Method: hand bail Volume Purged: 1 1/4 gal day

	Volume	Temperature	Conductivity	pH
1.	<u>1 1/4</u>	<u>46.5</u>	<u>1200</u>	<u>6.21</u>
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____

Pumping Level: _____ (Bladder Pump)

or

Recovery (Inertial or bailer):

h1 0 h2 0.01 time 5 sec depth: 38.2

Comments:

BARRY DAMSCHEN CONSULTING, LLC
Helena, Montana

Ground-Water Monitoring Field Report

Project: Sanitation Inc Landfill Well: SIMU-3
Personnel: Barry Damschen
Date: 11-2-05 Time: 1300
Conditions: windy cloudy 40S
Static Water Level: 31.49 Total Depth Purged: _____
Purge Method: hand bailer Volume Purged: 2 gal dry

	Volume	Temperature	Conductivity	pH
1.	<u>2 gal dry</u>	<u>48.9</u>	<u>840</u>	<u>6.45</u>
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____

Pumping Level: _____ (Bladder Pump)

or

Recovery (Inertial or bailer):

h1 0 h2 0.10 time 11 sec depth 36.5

Comments:

SIP#1 = 34.64

BARRY DAMSCHEN CONSULTING, LLC
Helena, Montana

Ground-Water Monitoring Field Report

Project: SANITATION Inc Landfill Well: SIMU-4,40

Personnel: BARRY DAMSCHEN

Date: 11-2-05 Time: 1400

Conditions: cool cloudy

Static Water Level: 40.32

Total Depth Purged: _____

Purge Method: hand bail

Volume Purged: 6 1/4

	Volume	Temperature	Conductivity	pH
1.	<u>5 gal</u>	<u>45.0</u>	<u>1380</u>	<u>6.26</u>
2.	<u>6 1/4</u>	<u>45.0</u>	<u>1380</u>	<u>6.13</u>
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____

Pumping Level: _____ (Bladder Pump)

or

Recovery (Inertial or bailer):

h1 0 h2 0.10

time 4 sec

depth: 45.3

Comments:

pond dry

Chain of Custody and Analytical Request Record

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Page _____ of _____

Company Name: BAMT Danchen Consulting		Project Name, PWS #, Permit #, Etc.: Sanitation Inc, Landfill		Project Name, PWS #, Permit #, Etc.: Sanitation Inc, Landfill	
Report Mail Address: 5531 York Road		Contact Name, Phone, Fax, E-mail: BAMT Danchen		Sampler Name if other than Contact: 	
Invoice Address: Hoboken, NJ 07030		Invoice Contact & Phone #: Bill Spja		Purchase Order #: 	
Report Required For: POT/WWTP ☐ DW ☐ Other ☒ MT DE Solid Waste		ANALYSIS REQUESTED LOCs only		Notify ELI prior to RUSH sample submittal for additional charges and scheduling 	
Special Report Formats - ELI must be notified prior to sample submittal for the following: NELAC ☐ A2LA ☐ Level IV ☐ Other ☐		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		Comments: 	
EDD/EDT ☐ Format _____		MATRIX		RUSH Turnaround (TAT) 	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	Normal Turnaround (TAT) 	
1 Slaw-2		11-2-05	1030	SEE ATTACHED	
2 Slaw-3		11-2-05	1300		
3 Slaw-4		11-2-05	1400		
4 Slaw-4D		11-2-05	1400		
5 TAP Blot		-	-		
6					
7					
8					
9					
10					
Relinquished by (print): BAMT F. Danchen		Date/Time: 11-7-05 5:55 PM		Received by (print): Shirley Johnson	
Relinquished by (print): 		Date/Time: 		Received by (print): 	
Custody Record MUST be Signed		Signature: 		Signature: 	
Sample Disposal:		Lab Disposal: ☒		Sample Type:	
Return to client:				LABORATORY USE ONLY # of fractions	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.



ANALYTICAL SUMMARY REPORT

December 07, 2005

Sanitation Inc.
PO Box 882
Lewistown, MT 59457

Workorder No.: H05110049

Project Name: Sanitation Inc. Landfill

San Inc
11/2/05

Energy Laboratories Inc received the following 5 samples from Sanitation Inc. on 11/7/2005 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H05110049-001	SIMW-2	11/02/05 10:30	11/07/05	Aqueous	Metals by ICP/ICPMS, Dissolved Chloride Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Nitrogen, Nitrate + Nitrite pH Sulfate 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H05110049-002	Trip Blank	11/02/05 10:30	11/07/05	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I
H05110049-003	SIMW-3	11/02/05 13:00	11/07/05	Aqueous	Metals by ICP/ICPMS, Dissolved Chloride Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Nitrogen, Nitrate + Nitrite pH Sulfate 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H05110049-004	SIMW-4	11/02/05 14:00	11/07/05	Aqueous	Same As Above
H05110049-005	SIMW-4D	11/02/05 14:00	11/07/05	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

If you have any questions regarding these tests results, please call.

Report Approved By: _____

John Hayes

LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-001
Client Sample ID: SIMW-2

Report Date: 12/07/05
Collection Date: 11/02/05 10:30
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.2	s.u.		0.1		E150.1	11/07/05 10:43 / ljm
Conductivity	1230	umhos/cm		1		A2510 B	11/07/05 10:41 / ljm
INORGANICS							
Sulfate	203	mg/L	D	1		A4500-SO4 E	11/08/05 14:47 / ljm
Chloride	52	mg/L		1		A4500-Cl B	11/09/05 09:15 / sld
Cyanide, Total Manual Distillation	ND	mg/L		0.005		E335.4	11/08/05 15:00 / kjp
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	3	mg/L		1		E410.4	11/14/05 16:30 / sld
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	2.94	mg/L		0.05		E353.2	11/11/05 10:56 / sld
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/11/05 17:00 / jjw
Arsenic	ND	mg/L		0.005		E200.8	11/11/05 17:00 / jjw
Barium	ND	mg/L		0.1		E200.7	11/08/05 23:25 / rlh
Beryllium	ND	mg/L		0.001		E200.7	11/08/05 23:25 / rlh
Cadmium	ND	mg/L		0.001		E200.8	11/11/05 17:00 / jjw
Chromium	ND	mg/L		0.01		E200.8	11/11/05 17:00 / jjw
Cobalt	ND	mg/L		0.01		E200.7	11/08/05 23:25 / rlh
Copper	ND	mg/L		0.01		E200.8	11/11/05 17:00 / jjw
Iron	ND	mg/L		0.03		E200.7	11/08/05 23:25 / rlh
Lead	ND	mg/L		0.01		E200.8	11/11/05 17:00 / jjw
Mercury	ND	mg/L		0.001		E200.8	11/11/05 17:00 / jjw
Nickel	ND	mg/L		0.01		E200.7	11/08/05 23:25 / rlh
Selenium	ND	mg/L		0.005		E200.8	11/11/05 17:00 / jjw
Silver	ND	mg/L		0.005		E200.8	11/11/05 17:00 / jjw
Thallium	ND	mg/L		0.1		E200.8	11/11/05 17:00 / jjw
Vanadium	ND	mg/L		0.1		E200.7	11/08/05 23:25 / rlh
Zinc	0.07	mg/L		0.01		E200.7	11/08/05 23:25 / rlh
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/10/05 18:00 / sbd
Acrylonitrile	ND	ug/L		20		SW8260B	11/10/05 18:00 / sbd
Benzene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Bromoform	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd

Report: RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-001
Client Sample ID: SIMW-2

Report Date: 12/07/05
Collection Date: 11/02/05 10:30
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
VOLATILE ORGANIC COMPOUNDS							
Bromomethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Chloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Chloroform	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Chloromethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Dibromomethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Dichlorodifluoromethane	0.25	ug/L	J	1.0		SW8260B	11/10/05 18:00 / sbd
1,1-Dichloroethane	0.18	ug/L	J	1.0		SW8260B	11/10/05 18:00 / sbd
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Ethylbenzene	ND	ug/L		20		SW8260B	11/10/05 18:00 / sbd
2-Hexanone	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Iodomethane	ND	ug/L		20		SW8260B	11/10/05 18:00 / sbd
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/10/05 18:00 / sbd
Methyl isobutyl ketone	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Methylene chloride	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Styrene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Toluene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
1,1,1-Trichloroethane	0.51	ug/L	J	1.0		SW8260B	11/10/05 18:00 / sbd
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Trichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Trichlorofluoromethane	0.19	ug/L	J	1.0		SW8260B	11/10/05 18:00 / sbd
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-001
Client Sample ID: SIMW-2

Report Date: 12/07/05
Collection Date: 11/02/05 10:30
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
o-Xylene	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/10/05 18:00 / sbd
Surr: 1,2-Dichloroethane-d4	95.6	%REC			70-130	SW8260B	11/10/05 18:00 / sbd
Surr: Dibromofluoromethane	99.6	%REC			77-126	SW8260B	11/10/05 18:00 / sbd
Surr: p-Bromofluorobenzene	106	%REC			76-127	SW8260B	11/10/05 18:00 / sbd
Surr: Toluene-d8	99.2	%REC			79-122	SW8260B	11/10/05 18:00 / sbd

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-002
Client Sample ID: Trip Blank

Report Date: 12/07/05
Collection Date: 11/02/05 10:30
Date Received: 11/07/05
Matrix: Trip Blank

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/10/05 18:27 / sbd
Acrylonitrile	ND	ug/L		20		SW8260B	11/10/05 18:27 / sbd
Benzene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Bromoform	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Bromomethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Chloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Chloroform	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Chloromethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Dibromomethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
2-Hexanone	ND	ug/L		20		SW8260B	11/10/05 18:27 / sbd
Iodomethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/10/05 18:27 / sbd
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/10/05 18:27 / sbd
Methylene chloride	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Styrene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Toluene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-002
Client Sample ID: Trip Blank

Report Date: 12/07/05
Collection Date: 11/02/05 10:30
Date Received: 11/07/05
Matrix: Trip Blank

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
VOLATILE ORGANIC COMPOUNDS							
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Trichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
o-Xylene	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/10/05 18:27 / sbd
Surr: 1,2-Dichloroethane-d4	95.2	%REC			70-130	SW8260B	11/10/05 18:27 / sbd
Surr: Dibromofluoromethane	99.2	%REC			77-126	SW8260B	11/10/05 18:27 / sbd
Surr: p-Bromofluorobenzene	103	%REC			76-127	SW8260B	11/10/05 18:27 / sbd
Surr: Toluene-d8	101	%REC			79-122	SW8260B	11/10/05 18:27 / sbd

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-003
Client Sample ID: SIMW-3

Report Date: 12/07/05
Collection Date: 11/02/05 13:00
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL PROPERTIES							
pH	7.4	s.u.		0.1		E150.1	11/07/05 10:44 / ljm
Conductivity	844	umhos/cm		1		A2510 B	11/07/05 10:42 / ljm
INORGANICS							
Sulfate	146	mg/L	D	1		A4500-SO4 E	11/08/05 15:14 / ljm
Chloride	28	mg/L		1		A4500-Cl B	11/09/05 09:18 / sld
Cyanide, Total Manual Distillation	ND	mg/L		0.005		E335.4	11/08/05 15:02 / kjp
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	37	mg/L		1		E410.4	11/28/05 16:30 / sld
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	11.4	mg/L	D	0.1		E353.2	11/11/05 10:58 / sld
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	11/08/05 23:29 / rlh
Arsenic	ND	mg/L		0.005		E200.8	11/11/05 17:14 / jjw
Barium	ND	mg/L		0.1		E200.7	11/08/05 23:29 / rlh
Beryllium	ND	mg/L		0.001		E200.7	11/08/05 23:29 / rlh
Cadmium	ND	mg/L		0.001		E200.8	11/11/05 17:14 / jjw
Chromium	ND	mg/L		0.01		E200.8	11/11/05 17:14 / jjw
Cobalt	ND	mg/L		0.01		E200.7	11/08/05 23:29 / rlh
Copper	ND	mg/L		0.01		E200.7	11/08/05 23:29 / rlh
Iron	ND	mg/L		0.03		E200.7	11/08/05 23:29 / rlh
Lead	ND	mg/L		0.01		E200.8	11/11/05 17:14 / jjw
Mercury	ND	mg/L		0.001		E200.8	11/11/05 17:14 / jjw
Nickel	ND	mg/L		0.01		E200.7	11/08/05 23:29 / rlh
Selenium	0.018	mg/L		0.005		E200.8	11/11/05 17:14 / jjw
Silver	ND	mg/L		0.005		E200.7	11/08/05 23:29 / rlh
Thallium	ND	mg/L		0.1		E200.7	11/08/05 23:29 / rlh
Vanadium	ND	mg/L		0.1		E200.7	11/08/05 23:29 / rlh
Zinc	0.02	mg/L		0.01		E200.7	11/08/05 23:29 / rlh
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/10/05 18:55 / sbd
Acrylonitrile	ND	ug/L		20		SW8260B	11/10/05 18:55 / sbd
Benzene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Bromoform	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-003
Client Sample ID: SIMW-3

Report Date: 12/07/05
Collection Date: 11/02/05 13:00
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
VOLATILE ORGANIC COMPOUNDS							
Bromomethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Chloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Chloroform	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Chloromethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Dibromomethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Dichlorodifluoromethane	0.34	ug/L	J	1.0		SW8260B	11/10/05 18:55 / sbd
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
2-Hexanone	ND	ug/L		20		SW8260B	11/10/05 18:55 / sbd
Iodomethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/10/05 18:55 / sbd
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/10/05 18:55 / sbd
Methylene chloride	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Styrene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Toluene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
1,1,1-Trichloroethane	0.23	ug/L	J	1.0		SW8260B	11/10/05 18:55 / sbd
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Trichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Trichlorofluoromethane	0.35	ug/L	J	1.0		SW8260B	11/10/05 18:55 / sbd
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-003
Client Sample ID: SIMW-3

Report Date: 12/07/05
Collection Date: 11/02/05 13:00
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
o-Xylene	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/10/05 18:55 / sbd
Surr: 1,2-Dichloroethane-d4	95.6	%REC			70-130	SW8260B	11/10/05 18:55 / sbd
Surr: Dibromofluoromethane	99.2	%REC			77-126	SW8260B	11/10/05 18:55 / sbd
Surr: p-Bromofluorobenzene	105	%REC			76-127	SW8260B	11/10/05 18:55 / sbd
Surr: Toluene-d8	101	%REC			79-122	SW8260B	11/10/05 18:55 / sbd

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-004
Client Sample ID: SIMW-4

Report Date: 12/07/05
Collection Date: 11/02/05 14:00
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL PROPERTIES							
pH	7.1	s.u.		0.1		E150.1	11/07/05 10:46 / ljm
Conductivity	1380	umhos/cm		1		A2510 B	11/07/05 10:44 / ljm
INORGANICS							
Sulfate	174	mg/L	D	1		A4500-SO4 E	11/08/05 14:49 / ljm
Chloride	114	mg/L		1		A4500-Cl B	11/09/05 09:21 / sld
Cyanide, Total Manual Distillation	ND	mg/L		0.005		E335.4	11/08/05 15:04 / kjp
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	23	mg/L		1		E410.4	11/28/05 16:30 / sld
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.08	mg/L		0.05		E353.2	11/11/05 11:00 / sld
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/11/05 17:51 / jjw
Arsenic	ND	mg/L		0.005		E200.8	11/11/05 17:51 / jjw
Barium	ND	mg/L		0.1		E200.7	11/08/05 23:33 / rlh
Beryllium	ND	mg/L		0.001		E200.7	11/08/05 23:33 / rlh
Cadmium	ND	mg/L		0.001		E200.8	11/11/05 17:51 / jjw
Chromium	ND	mg/L		0.01		E200.8	11/11/05 17:51 / jjw
Cobalt	ND	mg/L		0.01		E200.7	11/08/05 23:33 / rlh
Copper	ND	mg/L		0.01		E200.8	11/11/05 17:51 / jjw
Iron	ND	mg/L		0.03		E200.7	11/08/05 23:33 / rlh
Lead	ND	mg/L		0.01		E200.8	11/11/05 17:51 / jjw
Mercury	ND	mg/L		0.001		E200.8	11/11/05 17:51 / jjw
Nickel	ND	mg/L		0.01		E200.8	11/11/05 17:51 / jjw
Selenium	ND	mg/L		0.005		E200.8	11/11/05 17:51 / jjw
Silver	ND	mg/L		0.005		E200.8	11/11/05 17:51 / jjw
Thallium	ND	mg/L		0.1		E200.8	11/11/05 17:51 / jjw
Vanadium	ND	mg/L		0.1		E200.7	11/08/05 23:33 / rlh
Zinc	0.02	mg/L		0.01		E200.7	11/08/05 23:33 / rlh
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/10/05 19:23 / sbd
Acrylonitrile	ND	ug/L		20		SW8260B	11/10/05 19:23 / sbd
Benzene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Bromoform	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-004
Client Sample ID: SIMW-4

Report Date: 12/07/05
Collection Date: 11/02/05 14:00
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
VOLATILE ORGANIC COMPOUNDS							
Bromomethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Chloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Chloroform	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Chloromethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Dibromomethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
2-Hexanone	ND	ug/L		20		SW8260B	11/10/05 19:23 / sbd
Iodomethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/10/05 19:23 / sbd
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/10/05 19:23 / sbd
Methylene chloride	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Styrene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Toluene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Trichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-004
Client Sample ID: SIMW-4

Report Date: 12/07/05
Collection Date: 11/02/05 14:00
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
o-Xylene	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/10/05 19:23 / sbd
Surr: 1,2-Dichloroethane-d4	96.8	%REC			70-130	SW8260B	11/10/05 19:23 / sbd
Surr: Dibromofluoromethane	98.8	%REC			77-126	SW8260B	11/10/05 19:23 / sbd
Surr: p-Bromofluorobenzene	103	%REC			76-127	SW8260B	11/10/05 19:23 / sbd
Surr: Toluene-d8	101	%REC			79-122	SW8260B	11/10/05 19:23 / sbd

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-005
Client Sample ID: SIMW-4D

Report Date: 12/07/05
Collection Date: 11/02/05 14:00
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL PROPERTIES							
pH	7.1	s.u.		0.1		E150.1	11/07/05 10:47 / ljm
Conductivity	1410	umhos/cm		1		A2510 B	11/07/05 10:45 / ljm
INORGANICS							
Sulfate	169	mg/L	D	1		A4500-SO4 E	11/08/05 14:49 / ljm
Chloride	115	mg/L		1		A4500-Cl B	11/09/05 09:26 / sld
Cyanide, Total Manual Distillation	ND	mg/L		0.005		E335.4	11/08/05 15:06 / kjp
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	21	mg/L		1		E410.4	11/28/05 16:30 / sld
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.07	mg/L		0.05		E353.2	11/11/05 11:10 / sld
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/11/05 18:05 / jjw
Arsenic	ND	mg/L		0.005		E200.8	11/11/05 18:05 / jjw
Barium	ND	mg/L		0.1		E200.7	11/08/05 23:38 / rlh
Beryllium	ND	mg/L		0.001		E200.7	11/08/05 23:38 / rlh
Cadmium	ND	mg/L		0.001		E200.8	11/11/05 18:05 / jjw
Chromium	ND	mg/L		0.01		E200.8	11/11/05 18:05 / jjw
Cobalt	ND	mg/L		0.01		E200.7	11/08/05 23:38 / rlh
Copper	ND	mg/L		0.01		E200.8	11/11/05 18:05 / jjw
Iron	ND	mg/L		0.03		E200.7	11/08/05 23:38 / rlh
Lead	ND	mg/L		0.01		E200.8	11/11/05 18:05 / jjw
Mercury	ND	mg/L		0.001		E200.8	11/11/05 18:05 / jjw
Nickel	0.01	mg/L		0.01		E200.8	11/11/05 18:05 / jjw
Selenium	ND	mg/L		0.005		E200.8	11/11/05 18:05 / jjw
Silver	ND	mg/L		0.005		E200.8	11/11/05 18:05 / jjw
Thallium	ND	mg/L		0.1		E200.8	11/11/05 18:05 / jjw
Vanadium	ND	mg/L		0.1		E200.7	11/08/05 23:38 / rlh
Zinc	0.02	mg/L		0.01		E200.7	11/08/05 23:38 / rlh
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/10/05 19:51 / sbd
Acrylonitrile	ND	ug/L		20		SW8260B	11/10/05 19:51 / sbd
Benzene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Bromoform	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-005
Client Sample ID: SIMW-4D

Report Date: 12/07/05
Collection Date: 11/02/05 14:00
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
VOLATILE ORGANIC COMPOUNDS							
Bromomethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Chloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Chloroform	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Chloromethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Dibromomethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
2-Hexanone	ND	ug/L		20		SW8260B	11/10/05 19:51 / sbd
Iodomethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/10/05 19:51 / sbd
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/10/05 19:51 / sbd
Methylene chloride	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Styrene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Toluene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Trichloroethene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill
Lab ID: H05110049-005
Client Sample ID: SIMW-4D

Report Date: 12/07/05
Collection Date: 11/02/05 14:00
Date Received: 11/07/05
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
o-Xylene	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/10/05 19:51 / sbd
Surr: 1,2-Dichloroethane-d4	97.6	%REC			70-130	SW8260B	11/10/05 19:51 / sbd
Surr: Dibromofluoromethane	100	%REC			77-126	SW8260B	11/10/05 19:51 / sbd
Surr: p-Bromofluorobenzene	103	%REC			76-127	SW8260B	11/10/05 19:51 / sbd
Surr: Toluene-d8	99.2	%REC			79-122	SW8260B	11/10/05 19:51 / sbd

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Batch: 051107A-COND-PROBE-W		
Sample ID: LCS1_051107A	Laboratory Control Spike								11/07/05 09:18
Conductivity	1400	umhos/cm	1.0	99.3	90	110			
Sample ID: H05110035-003ADUP	Sample Duplicate								11/07/05 09:19
Conductivity	368	umhos/cm	1.0				0.4	10	
Sample ID: H05110048-001ADUP	Sample Duplicate								11/07/05 10:37
Conductivity	1820	umhos/cm	1.0				0.4	10	
Sample ID: H05110049-001ADUP	Sample Duplicate								11/07/05 10:41
Conductivity	1220	umhos/cm	1.0				0.6	10	
Sample ID: H05110051-001ADUP	Sample Duplicate								11/07/05 10:46
Conductivity	8000	umhos/cm	1.0				0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B							Batch: 051109A-CL-TTR-VV		
Sample ID: MBLK1_051109A Chloride	Method Blank 1	mg/L	0.3						11/09/05 08:57
Sample ID: LCS1_051109A Chloride	Laboratory Control Spike 100	mg/L	1.0	99	90	110			11/09/05 08:57
Sample ID: H05110048-003AMS Chloride	Sample Matrix Spike 16.0	mg/L	1.0	100	90	110			11/09/05 09:06
Sample ID: H05110048-003AMSD Chloride	Sample Matrix Spike Duplicate 16.0	mg/L	1.0	100	90	110	0	20	11/09/05 09:08
Sample ID: H05110049-004ADUP Chloride	Sample Duplicate 114	mg/L	1.0				0	20	11/09/05 09:23
Sample ID: H05110055-001CDUP Chloride	Sample Duplicate 72.0	mg/L	1.0				5.7	20	11/09/05 09:49
Sample ID: H05110055-009CMS Chloride	Sample Matrix Spike 11.0	mg/L	1.0	100	90	110			11/09/05 10:12
Sample ID: H05110065-001AMS Chloride	Sample Matrix Spike 13.0	mg/L	1.0	100	90	110			11/09/05 10:31
Sample ID: H05110065-001AMSD Chloride	Sample Matrix Spike Duplicate 12.0	mg/L	1.0	90	90	110	8.0	20	11/09/05 10:34
Sample ID: H05110071-010ADUP Chloride	Sample Duplicate 84.0	mg/L	1.0				1.2	20	11/09/05 11:01

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E							Batch: 051108A-SO4-TURB-W		
Sample ID: MBLK1_051108A	Method Blank								11/08/05 14:40
Sulfate	0.7	mg/L	0.2						
Sample ID: LCS1_051108A	Laboratory Control Spike								11/08/05 14:41
Sulfate	408	mg/L	2.3	101	90	110			
Sample ID: H05110050-001ADUP	Sample Duplicate								11/08/05 14:42
Sulfate	3320	mg/L	23				16	20	
Sample ID: H05110021-002AMS	Sample Matrix Spike								11/08/05 14:44
Sulfate	71.7	mg/L	1.0	85.4	80	120			
Sample ID: H05110021-002AMSD	Sample Matrix Spike Duplicate								11/08/05 14:44
Sulfate	72.1	mg/L	1.0	87.4	80	120	0.6	10	
Sample ID: H05110055-005CDUP	Sample Duplicate								11/08/05 14:56
Sulfate	374	mg/L	2.3				0.3	20	
Sample ID: H05110055-008CDUP	Sample Duplicate								11/08/05 15:19
Sulfate	441	mg/L	1.2				0.8	20	
Sample ID: H05110055-009CMS	Sample Matrix Spike								11/08/05 15:00
Sulfate	19.3	mg/L	1.0	92.6	80	120			
Sample ID: H05110055-009CMSD	Sample Matrix Spike Duplicate								11/08/05 15:01
Sulfate	20.4	mg/L	1.0	98.2	80	120	5.7	10	
Method: E150.1							Batch: 051107A-PH-W		
Sample ID: LCS1_051107A	Laboratory Control Spike								11/07/05 09:20
pH	7.00	s.u.	0.10	100	98.6	101.4			
Sample ID: H05110035-003ADUP	Sample Duplicate								11/07/05 09:22
pH	8.45	s.u.	0.10				0	2	
Sample ID: H05110048-001ADUP	Sample Duplicate								11/07/05 10:39
pH	7.91	s.u.	0.10				0.1	2	
Sample ID: H05110049-001ADUP	Sample Duplicate								11/07/05 10:44
pH	7.19	s.u.	0.10				0.1	2	
Sample ID: H05110051-001ADUP	Sample Duplicate								11/07/05 10:47
pH	7.59	s.u.	0.10				0	2	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: B_R67473		
Sample ID: B05110441-012AMS2	Sample Matrix Spike								11/08/05 14:44
Antimony	0.9999	mg/L	0.031	100	69.5	130.5			
Barium	1.066	mg/L	0.10	107	69.5	130.5			
Beryllium	0.5103	mg/L	0.0010	102	69.5	130.5			
Cobalt	0.9608	mg/L	0.010	96.1	69.5	130.5			
Copper	1.006	mg/L	0.010	101	69.5	130.5			
Nickel	1.022	mg/L	0.010	102	69.5	130.5			
Silver	0.3916	mg/L	0.0050	78.3	69.5	130.5			
Thallium	0.9530	mg/L	0.10	95.3	69.5	130.5			
Vanadium	1.038	mg/L	0.10	103	69.5	130.5			
Zinc	0.9940	mg/L	0.010	99.4	69.5	130.5			
Sample ID: B05110441-012AMSD2	Sample Matrix Spike Duplicate								11/08/05 14:48
Antimony	0.9718	mg/L	0.031	97.2	69.5	130.5	2.8	20	
Barium	1.069	mg/L	0.10	107	69.5	130.5	0.4	20	
Beryllium	0.5116	mg/L	0.0010	102	69.5	130.5	0.3	20	
Cobalt	0.9612	mg/L	0.010	96.1	69.5	130.5	0	20	
Copper	1.010	mg/L	0.010	101	69.5	130.5	0.3	20	
Nickel	1.019	mg/L	0.010	102	69.5	130.5	0.3	20	
Silver	0.3623	mg/L	0.0050	72.5	69.5	130.5	7.8	20	
Thallium	0.9675	mg/L	0.10	96.7	69.5	130.5	1.5	20	
Vanadium	1.070	mg/L	0.10	106	69.5	130.5	3.0	20	
Zinc	0.9904	mg/L	0.010	99	69.5	130.5	0.4	20	
Sample ID: B05110441-013ADIL	Serial Dilution								11/08/05 15:04
Antimony	ND	mg/L	0.15	0	0	0	0	14	
Barium	0.01408	mg/L	0.10	0	0	0	0	14	
Beryllium	ND	mg/L	0.0010	0	0	0	0	14	
Cobalt	ND	mg/L	0.010	0	0	0	0	14	
Copper	ND	mg/L	0.040	0	0	0	0	14	
Nickel	ND	mg/L	0.015	0	0	0	0	14	
Silver	ND	mg/L	0.020	0	0	0	0	14	
Thallium	ND	mg/L	0.50	0	0	0	0	14	
Vanadium	ND	mg/L	0.10	0	0	0	0	14	
Zinc	ND	mg/L	0.010	0	0	0	0	14	
Sample ID: B05110390-001BMS2	Sample Matrix Spike								11/08/05 15:54
Antimony	4.907	mg/L	0.15	98.1	70	130			
Barium	5.474	mg/L	0.10	109	70	130			
Beryllium	2.607	mg/L	0.0010	104	70	130			
Cobalt	4.855	mg/L	0.010	97.1	70	130			
Copper	5.138	mg/L	0.036	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanitation Inc.
 Project: Sanitation Inc. Landfill

Report Date: 12/07/05
 Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: B_R67473
Sample ID: B05110390-001BMS2	Sample Matrix Spike								11/08/05 15:54
Iron	30.05	mg/L	0.030	104	70	130			
Nickel	5.105	mg/L	0.015	102	70	130			
Silver	2.477	mg/L	0.020	99.1	70	130			
Thallium	4.621	mg/L	0.51	92.4	70	130			
Vanadium	5.320	mg/L	0.10	106	70	130			
Zinc	4.972	mg/L	0.010	99.4	70	130			
Sample ID: B05110390-001BMSD2	Sample Matrix Spike Duplicate								11/08/05 15:58
Antimony	4.839	mg/L	0.15	96.8	70	130	1.4	20	
Barium	5.453	mg/L	0.10	109	70	130	0.4	20	
Beryllium	2.601	mg/L	0.0010	104	70	130	0.2	20	
Cobalt	4.728	mg/L	0.010	94.6	70	130	2.7	20	
Copper	5.166	mg/L	0.036	103	70	130	0.5	20	
Iron	29.43	mg/L	0.030	101	70	130	2.1	20	
Nickel	5.009	mg/L	0.015	99.7	70	130	1.9	20	
Silver	2.425	mg/L	0.020	97	70	130	2.1	20	
Thallium	4.722	mg/L	0.51	94.4	70	130	2.2	20	
Vanadium	5.283	mg/L	0.10	106	70	130	0.7	20	
Zinc	4.850	mg/L	0.010	97	70	130	2.5	20	
Sample ID: B05110392-001BDIL	Serial Dilution								11/08/05 16:06
Antimony	ND	mg/L	0.15	0	0	0	0	14	
Barium	0.05899	mg/L	0.10	0	0	0	0	14	
Beryllium	ND	mg/L	0.0010	0	0	0	0	14	
Cobalt	ND	mg/L	0.010	0	0	0	0	14	
Copper	ND	mg/L	0.035	0	0	0	0	14	
Iron	0.05441	mg/L	0.030	0	0	0	120	14	
Nickel	ND	mg/L	0.015	0	0	0	0	14	
Silver	ND	mg/L	0.020	0	0	0	0	14	
Thallium	ND	mg/L	0.50	0	0	0	0	14	
Vanadium	ND	mg/L	0.10	0	0	0	0	14	
Zinc	ND	mg/L	0.010	0	0	0	0	14	
Sample ID: B05110481-001BMS2	Sample Matrix Spike								11/08/05 17:19
Antimony	0.9816	mg/L	0.031	98.2	70	130			
Barium	1.116	mg/L	0.10	109	70	130			
Beryllium	0.5169	mg/L	0.0010	103	70	130			
Cobalt	0.9426	mg/L	0.010	94.3	70	130			
Copper	1.032	mg/L	0.010	103	70	130			
Iron	6.900	mg/L	0.030	101	70	130			
Nickel	1.014	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: B_R67473		
Sample ID: B05110481-001BMS2	Sample Matrix Spike							11/08/05 17:19	
Silver	0.4491	mg/L	0.0050	89.8	70	130			
Thallium	1.017	mg/L	0.10	102	70	130			
Vanadium	1.032	mg/L	0.10	103	70	130			
Zinc	1.146	mg/L	0.010	96.7	70	130			
Sample ID: B05110481-001BMSD2	Sample Matrix Spike Duplicate							11/08/05 17:23	
Antimony	0.9601	mg/L	0.031	96	70	130	2.2	20	
Barium	1.117	mg/L	0.10	109	70	130	0.1	20	
Beryllium	0.5158	mg/L	0.0010	103	70	130	0.2	20	
Cobalt	0.9539	mg/L	0.010	95.4	70	130	1.2	20	
Copper	1.029	mg/L	0.010	103	70	130	0.3	20	
Iron	6.954	mg/L	0.030	102	70	130	0.8	20	
Nickel	1.022	mg/L	0.010	102	70	130	0.7	20	
Silver	0.4436	mg/L	0.0050	88.7	70	130	1.2	20	
Thallium	0.9458	mg/L	0.10	94.6	70	130	7.3	20	
Vanadium	1.033	mg/L	0.10	103	70	130	0.1	20	
Zinc	1.154	mg/L	0.010	97.5	70	130	0.7	20	
Sample ID: B05110578-001AMS2	Sample Matrix Spike							11/08/05 21:50	
Antimony	2.091	mg/L	0.061	105	69.5	130.5			
Barium	2.169	mg/L	0.10	107	69.5	130.5			
Beryllium	1.024	mg/L	0.0010	102	69.5	130.5			
Cobalt	2.041	mg/L	0.010	102	69.5	130.5			
Copper	2.036	mg/L	0.016	100	69.5	130.5			
Iron	9.838	mg/L	0.030	98.3	69.5	130.5			
Nickel	1.979	mg/L	0.010	98.5	69.5	130.5			
Silver	0.9839	mg/L	0.0082	98.4	69.5	130.5			
Thallium	1.861	mg/L	0.20	93.1	69.5	130.5			
Vanadium	2.089	mg/L	0.10	104	69.5	130.5			
Zinc	2.064	mg/L	0.010	103	69.5	130.5			
Sample ID: B05110578-001AMSD2	Sample Matrix Spike Duplicate							11/08/05 21:54	
Antimony	2.156	mg/L	0.061	108	69.5	130.5	3.1	20	
Barium	2.224	mg/L	0.10	109	69.5	130.5	2.5	20	
Beryllium	1.051	mg/L	0.0010	105	69.5	130.5	2.7	20	
Cobalt	2.082	mg/L	0.010	104	69.5	130.5	2.0	20	
Copper	2.083	mg/L	0.016	103	69.5	130.5	2.3	20	
Iron	9.970	mg/L	0.030	99.6	69.5	130.5	1.3	20	
Nickel	2.027	mg/L	0.010	101	69.5	130.5	2.4	20	
Silver	0.9718	mg/L	0.0082	97.2	69.5	130.5	1.2	20	
Thallium	1.964	mg/L	0.20	98.2	69.5	130.5	5.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: B_R67473		
Sample ID: B05110578-001AMSD2	Sample Matrix Spike Duplicate							11/08/05 21:54	
Vanadium	2.250	mg/L	0.10	113	69.5	130.5	7.4	20	
Zinc	2.122	mg/L	0.010	106	69.5	130.5	2.7	20	
Sample ID: B05110578-002ADIL	Serial Dilution							11/08/05 22:02	
Antimony	0.3324	mg/L	0.30	0	0	0	200	14	
Barium	0.04788	mg/L	0.10	0	0	0	0	14	
Beryllium	ND	mg/L	0.0020	0	0	0	0	14	
Cobalt	ND	mg/L	0.020	0	0	0	0	14	
Copper	0.08049	mg/L	0.080	0	0	0	200	14	
Iron	0.08540	mg/L	0.030	0	0	0	140	14	
Nickel	ND	mg/L	0.030	0	0	0	0	14	
Silver	0.07997	mg/L	0.040	0	0	0	200	14	
Thallium	ND	mg/L	1.0	0	0	0	0	14	
Vanadium	ND	mg/L	0.10	0	0	0	0	14	
Zinc	ND	mg/L	0.020	0	0	0	0	14	
Sample ID: B05110584-001CMS2	Sample Matrix Spike							11/08/05 22:52	
Antimony	2.045	mg/L	0.061	102	69.5	130.5			
Barium	2.147	mg/L	0.10	106	69.5	130.5			
Beryllium	1.033	mg/L	0.0010	103	69.5	130.5			
Cobalt	2.012	mg/L	0.010	101	69.5	130.5			
Copper	2.049	mg/L	0.016	102	69.5	130.5			
Iron	9.704	mg/L	0.030	96.9	69.5	130.5			
Nickel	1.948	mg/L	0.010	97.4	69.5	130.5			
Silver	0.9714	mg/L	0.0082	97.1	69.5	130.5			
Thallium	1.887	mg/L	0.20	94.3	69.5	130.5			
Vanadium	2.035	mg/L	0.10	102	69.5	130.5			
Zinc	2.047	mg/L	0.010	102	69.5	130.5			
Sample ID: B05110584-001CMSD2	Sample Matrix Spike Duplicate							11/08/05 22:56	
Antimony	2.152	mg/L	0.061	108	69.5	130.5	5.1	20	
Barium	2.201	mg/L	0.10	109	69.5	130.5	2.5	20	
Beryllium	1.054	mg/L	0.0010	105	69.5	130.5	2.0	20	
Cobalt	2.083	mg/L	0.010	104	69.5	130.5	3.5	20	
Copper	2.074	mg/L	0.016	103	69.5	130.5	1.2	20	
Iron	10.05	mg/L	0.030	100	69.5	130.5	3.5	20	
Nickel	2.026	mg/L	0.010	101	69.5	130.5	3.9	20	
Silver	1.005	mg/L	0.0082	100	69.5	130.5	3.4	20	
Thallium	1.920	mg/L	0.20	96	69.5	130.5	1.7	20	
Vanadium	2.088	mg/L	0.10	104	69.5	130.5	2.6	20	
Zinc	2.113	mg/L	0.010	105	69.5	130.5	3.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanitation Inc.

Report Date: 12/07/05

Project: Sanitation Inc. Landfill

Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: B_R67473		
Sample ID: H05110051-003C	Sample Matrix Spike							11/08/05 23:50	
Antimony	5.241	mg/L	0.15	105	69.5	130.5			
Barium	5.594	mg/L	0.10	107	69.5	130.5			
Beryllium	2.610	mg/L	0.0010	104	69.5	130.5			
Cobalt	5.078	mg/L	0.010	102	69.5	130.5			
Copper	5.110	mg/L	0.041	102	69.5	130.5			
Iron	24.47	mg/L	0.030	97.7	69.5	130.5			
Nickel	4.973	mg/L	0.015	99.5	69.5	130.5			
Silver	2.404	mg/L	0.020	96.2	69.5	130.5			
Thallium	4.801	mg/L	0.51	96	69.5	130.5			
Vanadium	5.553	mg/L	0.10	111	69.5	130.5			
Zinc	5.173	mg/L	0.010	103	69.5	130.5			
Sample ID: H05110051-003C	Sample Matrix Spike Duplicate							11/09/05 00:02	
Antimony	5.247	mg/L	0.15	105	69.5	130.5	0.1	20	
Barium	5.598	mg/L	0.10	108	69.5	130.5	0	20	
Beryllium	2.604	mg/L	0.0010	104	69.5	130.5	0.2	20	
Cobalt	5.159	mg/L	0.010	103	69.5	130.5	1.6	20	
Copper	5.152	mg/L	0.041	103	69.5	130.5	0.8	20	
Iron	24.74	mg/L	0.030	98.8	69.5	130.5	1.1	20	
Nickel	4.984	mg/L	0.015	99.7	69.5	130.5	0.2	20	
Silver	2.404	mg/L	0.020	96.2	69.5	130.5	0	20	
Thallium	4.750	mg/L	0.51	95	69.5	130.5	1.1	20	
Vanadium	5.328	mg/L	0.10	107	69.5	130.5	4.1	20	
Zinc	5.216	mg/L	0.010	104	69.5	130.5	0.8	20	
Sample ID: H05110051-004C	Serial Dilution							11/09/05 00:11	
Antimony	0.3616	mg/L	0.30	0	0	0	75	14	
Barium	ND	mg/L	0.10	0	0	0	0	14	
Beryllium	ND	mg/L	0.0020	0	0	0	0	14	
Cobalt	ND	mg/L	0.020	0	0	0	0	14	
Copper	ND	mg/L	0.080	0	0	0	0	14	
Iron	0.03322	mg/L	0.030	0	0	0	26	14	
Nickel	0.06451	mg/L	0.030	0	0	0	78	14	
Silver	ND	mg/L	0.040	0	0	0	0	14	
Thallium	ND	mg/L	1.0	0	0	0	0	14	
Vanadium	ND	mg/L	0.10	0	0	0	0	14	
Zinc	0.06237	mg/L	0.020	0	0	0	14	14	
Sample ID: MB-TJADIS051108A	Method Blank							11/08/05 12:32	
Antimony	ND	mg/L	0.03						
Barium	0.0005	mg/L	0.0004						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: B_R67473
Sample ID: MB-TJADIS051108A	Method Blank								11/08/05 12:32
Beryllium	ND	mg/L	0.0002						
Cobalt	ND	mg/L	0.002						
Copper	0.008	mg/L	0.008						
Iron	0.006	mg/L	0.003						
Nickel	ND	mg/L	0.003						
Silver	ND	mg/L	0.004						
Thallium	ND	mg/L	0.1						
Vanadium	0.01	mg/L	0.005						
Zinc	0.003	mg/L	0.002						
Sample ID: LFB-TJADIS051108A	Laboratory Fortified Blank								11/08/05 12:36
Antimony	0.965	mg/L	0.031	96.5	85	115			
Barium	1.08	mg/L	0.10	108	85	115			
Beryllium	0.513	mg/L	0.010	103	85	115			
Cobalt	0.932	mg/L	0.020	93.2	85	115			
Copper	1.00	mg/L	0.010	99.3	85	115			
Iron	5.01	mg/L	0.030	100	85	115			
Nickel	0.979	mg/L	0.050	97.9	85	115			
Silver	0.479	mg/L	0.010	95.8	85	115			
Thallium	0.865	mg/L	0.10	86.5	85	115			
Vanadium	1.06	mg/L	0.10	105	85	115			
Zinc	0.960	mg/L	0.010	95.7	85	115			
Sample ID: B05110343-010BDIL	Serial Dilution								11/08/05 13:01
Antimony	ND	mg/L	1.5	0	0	0	0	14	
Barium	0.03831	mg/L	0.10	0	0	0	0	14	
Beryllium	ND	mg/L	0.010	0	0	0	0	14	
Cobalt	ND	mg/L	0.10	0	0	0	0	14	
Copper	ND	mg/L	0.40	0	0	0	0	14	
Iron	ND	mg/L	0.15	0	0	0	0	14	
Nickel	0.2793	mg/L	0.15	0	0	0	35	14	
Silver	ND	mg/L	0.20	0	0	0	0	14	
Thallium	ND	mg/L	5.0	0	0	0	0	14	
Vanadium	ND	mg/L	0.25	0	0	0	0	14	
Zinc	0.2366	mg/L	0.10	0	0	0	110	14	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: B_R67678		
Sample ID: B05101767-002AMS	Sample Matrix Spike							11/11/05 10:58	
Antimony	0.05285	mg/L	0.0050	86.1	70	130			
Arsenic	0.4082	mg/L	0.0050		70	130			A
Cadmium	0.04936	mg/L	0.0010	98.4	70	130			
Chromium	0.05061	mg/L	0.010	101	70	130			
Copper	0.04899	mg/L	0.010	93.2	70	130			
Lead	0.05122	mg/L	0.010	102	70	130			
Mercury	0.001220	mg/L	0.0010	97	70	130			
Nickel	0.04891	mg/L	0.010	85.5	70	130			
Selenium	0.05684	mg/L	0.0050	21.5	70	130			S
Silver	0.01616	mg/L	0.0050	80.8	70	130			
Thallium	0.05122	mg/L	0.0050	102	70	130			
Sample ID: B05101767-002AMSD	Sample Matrix Spike Duplicate							11/11/05 11:06	
Antimony	0.05172	mg/L	0.0050	83.8	70	130	2.2	20	
Arsenic	0.4132	mg/L	0.0050		70	130	1.2	20	A
Cadmium	0.04803	mg/L	0.0010	95.8	70	130	2.7	20	
Chromium	0.04933	mg/L	0.010	98.7	70	130	2.6	20	
Copper	0.04787	mg/L	0.010	91	70	130	2.3	20	
Lead	0.04893	mg/L	0.010	97.6	70	130	4.6	20	
Mercury	0.001187	mg/L	0.0010	93.7	70	130	2.7	20	
Nickel	0.04783	mg/L	0.010	83.3	70	130	2.2	20	
Selenium	0.05600	mg/L	0.0050	19.8	70	130	1.5	20	S
Silver	0.01385	mg/L	0.0050	69.2	70	130	15	20	S
Thallium	0.04867	mg/L	0.0050	97.3	70	130	5.1	20	
Sample ID: B05110435-001DMS	Sample Matrix Spike							11/11/05 12:25	
Antimony	0.04843	mg/L	0.0050	96.3	70	130			
Arsenic	0.05102	mg/L	0.0050	100	70	130			
Cadmium	0.04631	mg/L	0.0010	92.5	70	130			
Chromium	0.05101	mg/L	0.010	95.6	70	130			
Copper	0.04729	mg/L	0.010	87.7	70	130			
Lead	0.04995	mg/L	0.010	97.9	70	130			
Mercury	0.001090	mg/L	0.0010	105	70	130			
Nickel	0.04729	mg/L	0.010	88.3	70	130			
Selenium	0.05365	mg/L	0.0050	105	70	130			
Silver	0.01428	mg/L	0.0050	71.4	70	130			
Thallium	0.04921	mg/L	0.0050	98.4	70	130			
Sample ID: B05110435-001DMSD	Sample Matrix Spike Duplicate							11/11/05 12:32	
Antimony	0.05147	mg/L	0.0050	102	70	130	6.1	20	
Arsenic	0.05515	mg/L	0.0050	109	70	130	7.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: B_R67678		
Sample ID: B05110435-001DMSD	Sample Matrix Spike Duplicate								11/11/05 12:32
Cadmium	0.04822	mg/L	0.0010	96.3	70	130	4.0	20	
Chromium	0.05335	mg/L	0.010	100	70	130	4.5	20	
Copper	0.04941	mg/L	0.010	92	70	130	4.4	20	
Lead	0.05263	mg/L	0.010	103	70	130	5.2	20	
Mercury	0.001094	mg/L	0.0010	105	70	130	0.4	20	
Nickel	0.04979	mg/L	0.010	93.3	70	130	5.2	20	
Selenium	0.05830	mg/L	0.0050	114	70	130	8.3	20	
Silver	0.01336	mg/L	0.0050	66.8	70	130	6.7	20	S
Thallium	0.05253	mg/L	0.0050	105	70	130	6.5	20	
Sample ID: B05110444-001AMS	Sample Matrix Spike								11/11/05 13:37
Antimony	0.050	mg/L	0.0030	99.8	70	130			
Arsenic	0.051	mg/L	0.0010	101	70	130			
Cadmium	0.050	mg/L	0.0010	99.6	70	130			
Chromium	0.055	mg/L	0.010	95.9	70	130			
Copper	0.048	mg/L	0.010	94.4	70	130			
Lead	0.049	mg/L	0.0010	98.4	70	130			
Mercury	0.0010	mg/L	0.00020	101	70	130			
Nickel	0.051	mg/L	0.010	92.7	70	130			
Selenium	0.055	mg/L	0.0050	108	70	130			
Silver	0.019	mg/L	0.0050	94.4	70	130			
Thallium	0.050	mg/L	0.0010	99.1	70	130			
Sample ID: B05110444-001AMSD	Sample Matrix Spike Duplicate								11/11/05 13:44
Antimony	0.052	mg/L	0.0030	103	70	130	3.6	20	
Arsenic	0.051	mg/L	0.0010	103	70	130	1.7	20	
Cadmium	0.052	mg/L	0.0010	103	70	130	3.3	20	
Chromium	0.057	mg/L	0.010	99.3	70	130	3.0	20	
Copper	0.049	mg/L	0.010	97	70	130	2.7	20	
Lead	0.052	mg/L	0.0010	104	70	130	5.1	20	
Mercury	0.0010	mg/L	0.00020	101	70	130	0	20	
Nickel	0.052	mg/L	0.010	95	70	130	2.2	20	
Selenium	0.054	mg/L	0.0050	108	70	130	0.3	20	
Silver	0.019	mg/L	0.0050	95.2	70	130	0.8	20	
Thallium	0.052	mg/L	0.0010	103	70	130	3.9	20	
Sample ID: B05110584-005CMS	Sample Matrix Spike								11/11/05 15:55
Antimony	0.05494	mg/L	0.0050	110	70	130			
Arsenic	0.06034	mg/L	0.0050	121	70	130			
Cadmium	0.04934	mg/L	0.0010	98.5	70	130			
Chromium	0.05952	mg/L	0.010	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: B_R67678		
Sample ID: B05110584-005CMS	Sample Matrix Spike								11/11/05 15:55
Copper	0.05380	mg/L	0.010	102	70	130			
Lead	0.05496	mg/L	0.010	110	70	130			
Mercury	0.001110	mg/L	0.0010	111	70	130			
Nickel	0.05284	mg/L	0.010	101	70	130			
Selenium	0.06503	mg/L	0.0050	119	70	130			
Silver	0.01472	mg/L	0.0050	73.6	70	130			
Thallium	0.05538	mg/L	0.0050	111	70	130			
Sample ID: B05110584-005CMSD	Sample Matrix Spike Duplicate								11/11/05 16:24
Antimony	0.05636	mg/L	0.0050	113	70	130	2.6	20	
Arsenic	0.06015	mg/L	0.0050	120	70	130	0.3	20	
Cadmium	0.04978	mg/L	0.0010	99.4	70	130	0.9	20	
Chromium	0.06044	mg/L	0.010	109	70	130	1.5	20	
Copper	0.05323	mg/L	0.010	101	70	130	1.1	20	
Lead	0.05450	mg/L	0.010	109	70	130	0.8	20	
Mercury	0.001137	mg/L	0.0010	114	70	130	2.4	20	
Nickel	0.05224	mg/L	0.010	99.8	70	130	1.1	20	
Selenium	0.06516	mg/L	0.0050	119	70	130	0.2	20	
Silver	0.01397	mg/L	0.0050	69.8	70	130	5.2	20	S
Thallium	0.05526	mg/L	0.0050	111	70	130	0.2	20	
Sample ID: B05110587-005CMS	Sample Matrix Spike								11/11/05 18:12
Antimony	0.05260	mg/L	0.0050	105	70	130			
Arsenic	0.05586	mg/L	0.0050	111	70	130			
Cadmium	0.04958	mg/L	0.0010	98.8	70	130			
Chromium	0.05388	mg/L	0.010	105	70	130			
Copper	0.06633	mg/L	0.010	127	70	130			
Lead	0.05439	mg/L	0.010	108	70	130			
Mercury	0.001040	mg/L	0.0010	104	70	130			
Nickel	0.06097	mg/L	0.010	102	70	130			
Selenium	0.05533	mg/L	0.0050	108	70	130			
Silver	0.01220	mg/L	0.0050	61	70	130			S
Thallium	0.05456	mg/L	0.0050	109	70	130			
Sample ID: B05110587-005CMSD	Sample Matrix Spike Duplicate								11/11/05 18:20
Antimony	0.05492	mg/L	0.0050	110	70	130	4.3	20	
Arsenic	0.05655	mg/L	0.0050	112	70	130	1.2	20	
Cadmium	0.05160	mg/L	0.0010	103	70	130	4.0	20	
Chromium	0.05498	mg/L	0.010	107	70	130	2.0	20	
Copper	0.05394	mg/L	0.010	102	70	130	21	20	R
Lead	0.05539	mg/L	0.010	110	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: B_R67678		
Sample ID: B05110587-005CMSD	Sample Matrix Spike Duplicate							11/11/05 18:20	
Mercury	0.001127	mg/L	0.0010	113	70	130	8.0	20	
Nickel	0.06136	mg/L	0.010	103	70	130	0.6	20	
Selenium	0.05655	mg/L	0.0050	110	70	130	2.2	20	
Silver	0.01504	mg/L	0.0050	75.2	70	130	21	20	R
Thallium	0.05587	mg/L	0.0050	112	70	130	2.4	20	
Sample ID: B05110603-001BMS	Sample Matrix Spike							11/11/05 21:30	
Antimony	0.05373	mg/L	0.0050	107	70	130			
Arsenic	0.05336	mg/L	0.0050	105	70	130			
Cadmium	0.04694	mg/L	0.0010	93.9	70	130			
Chromium	0.05200	mg/L	0.010	101	70	130			
Copper	0.06465	mg/L	0.010	90.4	70	130			
Lead	0.05409	mg/L	0.010	108	70	130			
Mercury	0.001200	mg/L	0.0010	120	70	130			
Nickel	0.05062	mg/L	0.010	95.8	70	130			
Selenium	0.05455	mg/L	0.0050	103	70	130			
Silver	0.01327	mg/L	0.0050	66.4	70	130			S
Thallium	0.05430	mg/L	0.0050	109	70	130			
Sample ID: B05110603-001BMSD	Sample Matrix Spike Duplicate							11/11/05 21:37	
Antimony	0.05378	mg/L	0.0050	108	70	130	0	20	
Arsenic	0.05221	mg/L	0.0050	103	70	130	2.2	20	
Cadmium	0.04634	mg/L	0.0010	92.7	70	130	1.3	20	
Chromium	0.05137	mg/L	0.010	99.9	70	130	1.2	20	
Copper	0.06338	mg/L	0.010	87.8	70	130	2.0	20	
Lead	0.05515	mg/L	0.010	110	70	130	1.9	20	
Mercury	0.001154	mg/L	0.0010	115	70	130	3.9	20	
Nickel	0.04955	mg/L	0.010	93.7	70	130	2.1	20	
Selenium	0.05208	mg/L	0.0050	98.1	70	130	4.6	20	
Silver	0.01272	mg/L	0.0050	63.6	70	130	4.2	20	S
Thallium	0.05499	mg/L	0.0050	110	70	130	1.3	20	
Sample ID: LRB	Method Blank							11/11/05 09:39	
Selenium	ND	mg/L	0.0001						
Antimony	ND	mg/L	0.00001						
Arsenic	ND	mg/L	0.00004						
Cadmium	0.00004	mg/L	9.0E-06						
Chromium	ND	mg/L	0.00004						
Copper	ND	mg/L	0.00007						
Lead	ND	mg/L	8.0E-06						
Mercury	ND	mg/L	0.00001						

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: B_R67678		
Sample ID: LRB	Method Blank								11/11/05 09:39
Nickel	ND	mg/L	0.00003						
Silver	ND	mg/L	0.00003						
Thallium	ND	mg/L	7.0E-06						
Sample ID: LFB	Laboratory Fortified Blank								11/11/05 09:46
Selenium	0.052	mg/L	0.0050	104	85	115			
Antimony	0.051	mg/L	0.050	102	85	115			
Arsenic	0.052	mg/L	0.0050	103	85	115			
Cadmium	0.051	mg/L	0.0010	102	85	115			
Chromium	0.052	mg/L	0.010	103	85	115			
Copper	0.052	mg/L	0.010	103	85	115			
Lead	0.052	mg/L	0.010	103	85	115			
Mercury	0.0010	mg/L	0.0010	101	85	115			
Nickel	0.051	mg/L	0.010	103	85	115			
Silver	0.020	mg/L	0.0050	101	85	115			
Thallium	0.052	mg/L	0.10	103	85	115			
Method: E335.4							Batch: B_A2005-11-08_4_CN__02		
Sample ID: B05110587-005DMS	Sample Matrix Spike								11/08/05 15:08
Cyanide, Total Manual Distillation	0.103	mg/L	0.0050	103	90	110			
Sample ID: B05110587-005DMSD	Sample Matrix Spike Duplicate								11/08/05 15:10
Cyanide, Total Manual Distillation	0.107	mg/L	0.0050	107	90	110	3.4	10	
Sample ID: LFB	Laboratory Fortified Blank								11/08/05 14:17
Cyanide, Total Manual Distillation	0.104	mg/L	0.0050	104	90	110			
Sample ID: MBLK	Method Blank								11/08/05 14:18
Cyanide, Total Manual Distillation	ND	mg/L	0.003						
Sample ID: B05110581-006EMS	Sample Matrix Spike								11/08/05 14:39
Cyanide, Total Manual Distillation	0.103	mg/L	0.0050	103	90	110			
Sample ID: B05110581-006EMSD	Sample Matrix Spike Duplicate								11/08/05 14:40
Cyanide, Total Manual Distillation	0.112	mg/L	0.0050	112	90	110	7.7	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: Sanitation Inc.
 Project: Sanitation Inc. Landfill

Report Date: 12/07/05
 Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2	Batch: A2005-11-11_5_NO3_01								
Sample ID: LCS-2	Laboratory Control Spike								11/11/05 10:00
Nitrogen, Nitrate+Nitrite as N	27.3	mg/L	0.30	109	90	110			
Sample ID: LFB-3	Laboratory Fortified Blank								11/11/05 10:02
Nitrogen, Nitrate+Nitrite as N	0.540	mg/L	0.050	108	90	110			
Sample ID: MBLK-5	Method Blank								11/11/05 10:06
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01						
Sample ID: MBLK-6	Method Blank								11/11/05 10:08
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01						
Sample ID: MBLK-13	Method Blank								11/11/05 10:22
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01						
Sample ID: H05110047-001ADUP	Sample Duplicate								11/11/05 10:34
Nitrogen, Nitrate+Nitrite as N	1.23	mg/L	0.050				3.2	20	
Sample ID: MBLK-23	Method Blank								11/11/05 10:42
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01						
Sample ID: MBLK-33	Method Blank								11/11/05 11:02
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01						
Sample ID: H05110049-004BMS	Sample Matrix Spike								11/11/05 11:06
Nitrogen, Nitrate+Nitrite as N	1.05	mg/L	0.050	97	90	110			
Sample ID: H05110049-004BMSD	Sample Matrix Spike Duplicate								11/11/05 11:08
Nitrogen, Nitrate+Nitrite as N	1.08	mg/L	0.050	100	90	110	2.8	20	
Sample ID: H05110051-001BDUP	Sample Duplicate								11/11/05 11:14
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.050				0	20	
Sample ID: MBLK-43	Method Blank								11/11/05 11:22
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01						
Sample ID: H05110057-004AMS	Sample Matrix Spike								11/11/05 11:38
Nitrogen, Nitrate+Nitrite as N	1.06	mg/L	0.050	106	90	110			
Sample ID: H05110057-004AMSD	Sample Matrix Spike Duplicate								11/11/05 11:40
Nitrogen, Nitrate+Nitrite as N	1.05	mg/L	0.050	105	90	110	0.9	20	
Sample ID: MBLK-53	Method Blank								11/11/05 11:42
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanitation Inc.
 Project: Sanitation Inc. Landfill

Report Date: 12/07/05
 Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2							Batch: A2005-11-11_5_NO3_01		
Sample ID: H05110073-001BDUP	Sample Duplicate								11/11/05 11:50
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.050				0	20	
Sample ID: MBLK-63	Method Blank								11/11/05 12:02
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01						
Sample ID: H05110073-009BMS	Sample Matrix Spike								11/11/05 12:12
Nitrogen, Nitrate+Nitrite as N	1.02	mg/L	0.050	102	90	110			
Sample ID: H05110073-009BMSD	Sample Matrix Spike Duplicate								11/11/05 12:14
Nitrogen, Nitrate+Nitrite as N	1.03	mg/L	0.050	103	90	110	1.0	20	
Sample ID: H05110089-001BDUP	Sample Duplicate								11/11/05 12:20
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.050				0	20	
Sample ID: MBLK-73	Method Blank								11/11/05 12:22
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01						
Sample ID: MBLK-82	Method Blank								11/11/05 12:40
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01						
Method: E410.4							Batch: R24542		
Sample ID: MB-R24542	Method Blank								11/14/05 16:30
Oxygen Demand, Chemical (COD)	ND	mg/L	0						
Sample ID: LCS-R24542	Laboratory Control Spike								11/14/05 16:30
Oxygen Demand, Chemical (COD)	140	mg/L	1.0	92.2	90	110			
Sample ID: H05110102-001BMS	Sample Matrix Spike								11/14/05 16:30
Oxygen Demand, Chemical (COD)	58	mg/L	1.0	110	80	120			
Sample ID: H05110102-001BMSD	Sample Matrix Spike Duplicate								11/14/05 16:30
Oxygen Demand, Chemical (COD)	43	mg/L	1.0	80	80	120	30	30	

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Sanitation Inc.

Report Date: 12/07/05

Project: Sanitation Inc. Landfill

Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E410.4									Batch: R24841
Sample ID: MB-R24841	Method Blank								11/28/05 16:30
Oxygen Demand, Chemical (COD)	ND	mg/L	0						
Sample ID: LCS-R24841	Laboratory Control Spike								11/28/05 16:30
Oxygen Demand, Chemical (COD)	140	mg/L	1.0	91.2	90	110			
Sample ID: H05110130-001BMS	Sample Matrix Spike								11/28/05 16:30
Oxygen Demand, Chemical (COD)	840	mg/L	1.0	100	80	120			
Sample ID: H05110175-001BDUP	Sample Duplicate								11/28/05 16:30
Oxygen Demand, Chemical (COD)	890	mg/L	1.0		70	130	2.8	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanitation Inc.

Project: Sanitation Inc. Landfill

Report Date: 12/07/05

Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B							Batch: B_R67623		
Sample ID: Ics111005	Laboratory Control Spike							11/10/05 12:39	
trans-1,4-Dichloro-2-butene	6.36	ug/L	1.0	127	50	142			
Acetone	37.3	ug/L	20	74.6	62	130			
Acrylonitrile	48.0	ug/L	20	96	60	130			
Benzene	5.12	ug/L	1.0	102	71	133			
Bromochloromethane	5.16	ug/L	1.0	103	68	131			
Bromodichloromethane	4.84	ug/L	1.0	96.8	67	138			
Bromoform	5.04	ug/L	1.0	101	64	136			
Bromomethane	4.60	ug/L	1.0	92	60	138			
Carbon disulfide	5.16	ug/L	1.0	103	46	145			
Carbon tetrachloride	5.28	ug/L	1.0	106	61	144			
Chlorobenzene	5.04	ug/L	1.0	101	78	136			
Chlorodibromomethane	5.24	ug/L	1.0	105	72	136			
Chloroethane	4.36	ug/L	1.0	87.2	64	136			
Chloroform	5.12	ug/L	1.0	102	69	133			
Chloromethane	3.89	ug/L	1.0	77.8	63	149			
1,2-Dibromo-3-chloropropane	5.40	ug/L	1.0	108	63	125			
1,2-Dibromoethane	5.12	ug/L	1.0	102	75	131			
Dibromomethane	5.12	ug/L	1.0	102	72	133			
1,2-Dichlorobenzene	5.20	ug/L	1.0	104	78	129			
1,4-Dichlorobenzene	5.08	ug/L	1.0	102	78	131			
Dichlorodifluoromethane	3.92	ug/L	1.0	78.5	55	141			
1,1-Dichloroethane	5.04	ug/L	1.0	101	72	130			
1,2-Dichloroethane	5.08	ug/L	1.0	102	57	146			
1,1,1-Dichloroethene	5.04	ug/L	1.0	101	66	142			
cis-1,2-Dichloroethene	4.92	ug/L	1.0	98.4	74	133			
trans-1,2-Dichloroethene	5.12	ug/L	1.0	102	76	138			
1,2-Dichloropropane	4.84	ug/L	1.0	96.8	72	135			
cis-1,3-Dichloropropene	5.12	ug/L	1.0	102	75	132			
trans-1,3-Dichloropropene	5.52	ug/L	1.0	110	77	145			
Ethylbenzene	5.16	ug/L	1.0	103	78	131			
2-Hexanone	42.4	ug/L	20	84.8	72	131			
Iodomethane	5.44	ug/L	1.0	109	66	132			
Methyl ethyl ketone	36.7	ug/L	20	73.4	55	145			
Methyl isobutyl ketone	43.6	ug/L	20	87.2	73	129			
Methylene chloride	4.76	ug/L	1.0	95.2	73	126			
Styrene	5.20	ug/L	1.0	104	76	134			
1,1,1,2-Tetrachloroethane	5.08	ug/L	1.0	102	75	135			
1,1,2,2-Tetrachloroethane	4.96	ug/L	1.0	99.2	72	132			
Tetrachloroethene	5.16	ug/L	1.0	103	78	137			
Toluene	5.00	ug/L	1.0	100	78	134			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanitation Inc.
 Project: Sanitation Inc. Landfill

Report Date: 12/07/05
 Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: B_R67473
Sample ID: B05110578-001AMSD2	Sample Matrix Spike Duplicate								11/08/05 21:54
Vanadium	2.250	mg/L	0.10	113	69.5	130.5	7.4	20	
Zinc	2.122	mg/L	0.010	106	69.5	130.5	2.7	20	
Sample ID: B05110578-002ADIL	Serial Dilution								11/08/05 22:02
Antimony	0.3324	mg/L	0.30	0	0	0	200	14	
Barium	0.04788	mg/L	0.10	0	0	0	0	14	
Beryllium	ND	mg/L	0.0020	0	0	0	0	14	
Cobalt	ND	mg/L	0.020	0	0	0	0	14	
Copper	0.08049	mg/L	0.080	0	0	0	200	14	
Iron	0.08540	mg/L	0.030	0	0	0	140	14	
Nickel	ND	mg/L	0.030	0	0	0	0	14	
Silver	0.07997	mg/L	0.040	0	0	0	200	14	
Thallium	ND	mg/L	1.0	0	0	0	0	14	
Vanadium	ND	mg/L	0.10	0	0	0	0	14	
Zinc	ND	mg/L	0.020	0	0	0	0	14	
Sample ID: B05110584-001CMS2	Sample Matrix Spike								11/08/05 22:52
Antimony	2.045	mg/L	0.061	102	69.5	130.5			
Barium	2.147	mg/L	0.10	106	69.5	130.5			
Beryllium	1.033	mg/L	0.0010	103	69.5	130.5			
Cobalt	2.012	mg/L	0.010	101	69.5	130.5			
Copper	2.049	mg/L	0.016	102	69.5	130.5			
Iron	9.704	mg/L	0.030	96.9	69.5	130.5			
Nickel	1.948	mg/L	0.010	97.4	69.5	130.5			
Silver	0.9714	mg/L	0.0082	97.1	69.5	130.5			
Thallium	1.887	mg/L	0.20	94.3	69.5	130.5			
Vanadium	2.035	mg/L	0.10	102	69.5	130.5			
Zinc	2.047	mg/L	0.010	102	69.5	130.5			
Sample ID: B05110584-001CMSD2	Sample Matrix Spike Duplicate								11/08/05 22:56
Antimony	2.152	mg/L	0.061	108	69.5	130.5	5.1	20	
Barium	2.201	mg/L	0.10	109	69.5	130.5	2.5	20	
Beryllium	1.054	mg/L	0.0010	105	69.5	130.5	2.0	20	
Cobalt	2.083	mg/L	0.010	104	69.5	130.5	3.5	20	
Copper	2.074	mg/L	0.016	103	69.5	130.5	1.2	20	
Iron	10.05	mg/L	0.030	100	69.5	130.5	3.5	20	
Nickel	2.026	mg/L	0.010	101	69.5	130.5	3.9	20	
Silver	1.005	mg/L	0.0082	100	69.5	130.5	3.4	20	
Thallium	1.920	mg/L	0.20	96	69.5	130.5	1.7	20	
Vanadium	2.088	mg/L	0.10	104	69.5	130.5	2.6	20	
Zinc	2.113	mg/L	0.010	105	69.5	130.5	3.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Sanition Inc.
 Project: Sanition Inc. Landfill

Report Date: 12/07/05
 Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW260B									Batch: B_R67623
Sample ID: B0110584-001Ems	Sample Matrix Spike								11/10/05 20:19
Surr: Dibromodichloromethane			2.0	98.8	77	126			
Surr: p-Bromodichlorobenzene			2.0	105	76	127			
Surr: Toluene-8			2.0	101	79	122			
Sample ID: B0110584-001Emsd	Sample Matrix Spike Duplicate								11/10/05 20:47
Acetone	82.4	ug/L	40	82.4	62	130	8.3	20	
Acrylonitrile	99.2	ug/L	40	99.2	60	130	3.3	20	
Benzene	10.1	ug/L	2.0	101	71	133	4.0	20	
Bromochloromethane	10.2	ug/L	2.0	102	68	131	5.7	20	
Bromodichloromethane	9.28	ug/L	2.0	92.8	67	138	4.4	20	
Bromoform	9.12	ug/L	2.0	91.2	64	136	7.3	20	
Bromomethane	9.20	ug/L	2.0	92	60	138	2.6	20	
Carbon disulfide	10.5	ug/L	2.0	105	46	146	2.3	20	
Carbon tetrachloride	10.5	ug/L	2.0	105	61	144	3.1	20	
Chlorobenzene	10.2	ug/L	2.0	102	78	136	4.0	20	
Chlorodibromomethane	9.76	ug/L	2.0	97.6	72	136	4.2	20	
Chloroethane	9.20	ug/L	2.0	92	64	136	2.6	20	
Chloroform	10.2	ug/L	2.0	102	69	133	4.8	20	
Chloromethane	7.84	ug/L	2.0	78.4	63	149	1.6	20	
1,2-Dibromo-3-chloropropane	10.9	ug/L	2.0	109	63	125	21	20	R
1,2-Dibromoethane	10.1	ug/L	2.0	101	75	131	5.7	20	
Dibromomethane	9.84	ug/L	2.0	98.4	72	133	2.5	20	
1,2-Dichlorobenzene	10.7	ug/L	2.0	107	78	129	10	20	
1,4-Dichlorobenzene	10.5	ug/L	2.0	105	78	132	10	20	
trans-1,4-Dichloro-2-butene	10.7	ug/L	2.0	107	50	142	0.7	20	
Dichlorodifluoromethane	7.96	ug/L	2.0	79.6	55	141	1.1	20	
1,1-Dichloroethane	10.1	ug/L	2.0	101	72	130	3.2	20	
1,2-Dichloroethane	10.2	ug/L	2.0	102	57	146	4.0	20	
1,1-Dichloroethene	10.2	ug/L	2.0	102	66	142	4.0	20	
cis-1,2-Dichloroethene	9.92	ug/L	2.0	99.2	74	133	4.1	20	
trans-1,2-Dichloroethene	10.2	ug/L	2.0	102	76	138	2.4	20	
1,2-Dichloropropene	9.60	ug/L	2.0	96	72	135	4.3	20	
cis-1,3-Dichloropropene	9.68	ug/L	2.0	96.8	75	132	4.2	20	
trans-1,3-Dichloropropene	10.3	ug/L	2.0	103	77	145	3.1	20	
Ethylbenzene	10.2	ug/L	2.0	102	78	131	4.8	20	
2-Hexanone	87.2	ug/L	40	87.2	72	131	4.7	20	
Iodomethane	11.8	ug/L	2.0	118	66	132	2.7	20	
Methyl ethyl ketone	81.6	ug/L	40	81.6	55	145	1.0	20	
Methyl isobutyl ketone	89.6	ug/L	40	89.6	73	129	6.5	20	
Methylene chloride	9.60	ug/L	2.0	96	73	126	5.1	20	
Styrene	8.48	ug/L	2.0	84.8	76	134	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

QA/QC Summary Report

Client: Sanitation Inc.
Project: Sanitation Inc. Landfill

Report Date: 12/07/05
Work Order: H05110049

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B							Batch: B_R67623		
Sample ID: B05110584-001Emsd	Sample Matrix Spike Duplicate								11/10/05 20:47
1,1,1,2-Tetrachloroethane	10.2	ug/L	2.0	102	75	135	4.0	20	
1,1,2,2-Tetrachloroethane	10.3	ug/L	2.0	103	72	132	11	20	
Tetrachloroethene	10.4	ug/L	2.0	104	78	137	3.9	20	
Toluene	9.92	ug/L	2.0	99.2	78	134	3.3	20	
1,1,1-Trichloroethane	10.4	ug/L	2.0	104	64	141	3.1	20	
1,1,2-Trichloroethane	9.76	ug/L	2.0	97.6	72	133	5.0	20	
Trichloroethene	10.0	ug/L	2.0	100	75	138	4.9	20	
Trichlorofluoromethane	9.52	ug/L	2.0	95.2	58	139	3.4	20	
1,2,3-Trichloropropane	9.84	ug/L	2.0	98.4	67	133	8.5	20	
Vinyl acetate	7.94	ug/L	2.0	79.4	42	120	1.2	20	
Vinyl chloride	8.16	ug/L	2.0	81.6	66	140	2.0	20	
m+p-Xylenes	19.4	ug/L	2.0	97.2	78	133	3.3	20	
o-Xylene	9.76	ug/L	2.0	97.6	79	136	1.7	20	
Xylenes, Total	29.2	ug/L	2.0	97.3	70	130	2.8	20	
Surr: 1,2-Dichloroethane-d4			2.0	96.4	70	130			
Surr: Dibromofluoromethane			2.0	100	77	126			
Surr: p-Bromofluorobenzene			2.0	108	76	127			
Surr: Toluene-d8			2.0	99.2	79	122			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

